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QUEEN'S UNIVERSITY

KINGSTON, CANADA



INCORPORATED BY ROYAL CHARTER IN 1841

CALENDAR

of

THE FACULTY OF MEDICINE

NINETY-EIGHTH SESSION

1949-50

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1949/50

The attention of prospective matriculants is directed to the statement on page 30 concerning the filing of applications for admission.

All announcements and regulations contained in this Calendar apply to the current session only.

The Faculty of Medicine reserves the right to make such changes in the regulations and courses of study at any time as experience may prove desirable.

All requests for information should be addressed to the Secretary of the Medical Faculty, Queen's University, Kingston, Ontario.

**Queen's University
Medical Library**

KINGSTON, ONTARIO

QUEEN'S UNIVERSITY

KINGSTON, CANADA



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CALENDAR of THE FACULTY OF MEDICINE

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1949

JANUARY							FEBRUARY							MARCH							APRIL						
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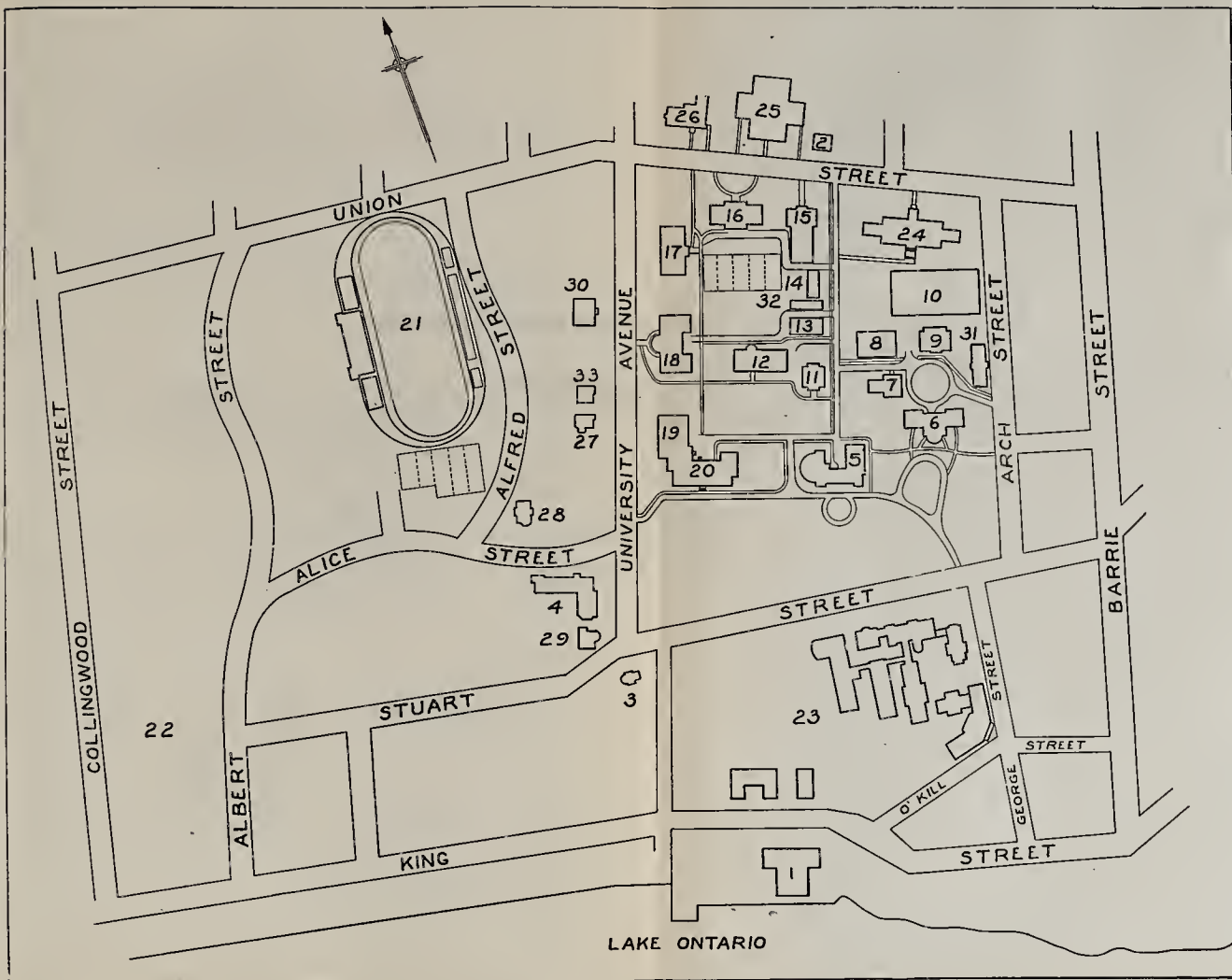
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1950

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BUILDINGS OF QUEEN'S UNIVERSITY

PLAN OF QUEEN'S UNIVERSITY GROUNDS

- | | | |
|--------------------------|--|------------------------------|
| 1. Central Heating Plant | 13. Technical Supplies and Storehouse | 24. Miller Hall |
| 2. Commerce Building | 14. Mechanical Laboratory | 25. Gymnasium |
| 3. Observatory | 15. Nicol Hall | 26. Students' Memorial Union |
| 4. Ban Righ Hall | 16. Gordon Hall | 27. Gordon House |
| 5. Old Arts Building | 17. Douglas Library | 28. Goodwin House |
| 6. Principal's Residence | 18. Ontario Hall | 29. Macdonnell House |
| 7. Old Medical Building | 19. Grant Hall | 30. Muir House |
| 8. Hydraulics Laboratory | 20. Kingston Hall | 31. Craine Building |
| 9. Medical Laboratory | 21. Richardson Stadium | 32. Gun Shed |
| 10. Jock Hart's Arena | 22. Leonard Field | 33. Matheson House |
| 11. Carruthers Hall | 23. Kingston General Hospital
and Richardson Laboratory | |
| 12. Fleming Hall | | |

ACADEMIC YEAR

Ninety-eighth Session

1949

Aug. 30, Tuesday—Supplemental examinations for first, second, third and fourth years. (Clinical examinations will be held in Kingston during the week of September 12.)

Sept. 19, Monday—Registration in first five years.

Sept. 20, Tuesday—Classes open for first five years.

Oct. 16, Sunday—University Day.

Dec. 21, Wednesday—Christmas holidays begin at 5:30 p.m.

1950

Jan. 5, Thursday—Classes reopen at 8:00 a.m.

Apr. 5, Wednesday—Lister Day.

Apr. 6, Thursday—Easter recess begins at 5:30 p.m.

Apr. 7, Friday—Good Friday

Apr. 9, Sunday—Easter Sunday.

Apr. 12, Wednesday—Classes reopen.

May 6, Saturday—Classes close in first, second, third fourth' and fifth years.

May 8, Monday—Final examinations begin for first, second, third, fourth and fifth years.

May 20, Saturday—University Convocation for conferring degrees upon graduates of the faculties of Arts and Science.

May 25-31—Co-incidental examinations for the sixth year.

June 10, Saturday—Medical Convocation.

It is to be clearly understood that the above dates are tentative and may be altered in consideration of changed conditions.

Dates for the opening and closing of the Session for the sixth year were not available at the time of going to press.

HISTORY OF THE UNIVERSITY

Queen's University owes its origin to the desire of the Synod of the Presbyterian Church in Canada in connection with the Church of Scotland for a ministry trained within the country. As early as 1832 the Provincial Government had been petitioned "to endow without delay an institution, or professorships, for the education and training of young men for the ministry in connection with the Synod." This and other representations failing of their object, steps were taken by the Synod to found a college at Kingston on the lines of the Scottish National Universities. On October 16th, 1841, a Royal Charter was issued by Her Majesty Queen Victoria for the establishment of Queen's College, Kingston, and the first classes were opened in March, 1842, with the Rev. Dr. Liddell as Principal. Funds were provided in part by grants from the Presbyterian Church in Scotland, and from the Canadian Government, and in part by liberal subscriptions from the friends of the young and growing University. In 1867-68 the withdrawal of the Provincial grant, and the failure of the Commercial Bank, which swept away the greater part of the endowment, almost brought financial disaster. But the crisis was met by the determination of Principal Snodgrass and of other self-denying workers chief among whom was Professor Mackerras. The country was canvassed for subscriptions, and as a result of the widespread interest aroused, \$113,000 was added to the endowment.

In 1877 Principal Snodgrass was succeeded by the Rev. G. M. Grant who for a quarter of a century built with brilliant success upon the foundation laid by his predecessors. Under his guidance the University gained rapidly in size and prestige. In 1887, as the result of an effort in commemoration of the Queen's Jubilee, \$250,000 was raised, resulting in further extension, and in the establishment of new professorships.

Principal Grant died in 1902, and was succeeded in the following year by the Very Rev. D. M. Gordon. In 1916, owing to ill-health, Principal Gordon resigned his position but continued in office until the autumn of 1917, when the Rev. R. Bruce Taylor was appointed as his successor. In 1930 Principal Taylor resigned his position and went abroad to live, and Dr. J. C. Connell was appointed Acting-Principal until a new Principal should be found. In October, W. Hamilton Fyfe, Head of Christ's Hospital, England, and formerly Fellow of Merton

College, Oxford, was installed as Principal. Principal Fyfe resigned in 1936 to accept the Principalship of the University of Aberdeen, Scotland. Dr. Fyfe was succeeded by Principal R. C. Wallace, President of the University of Alberta from 1928 to 1936.

In 1854 the Medical Faculty of Queen's was established. It was reorganized in 1866 as the Royal College of Physicians and Surgeons in affiliation with the University, but in 1891 the original status was resumed.

Queen's led the way in co-education. As early as 1870 special classes in English and other subjects were formed for women, but courses leading to a degree were not thrown open to them until 1878-79. In 1880 co-education was extended to the medical course, and in 1883 a separate Women's Medical College was opened and affiliated with Queen's. It was closed in 1894, as similar facilities were offered in Toronto and elsewhere. In 1943, for the first time in 49 years, women were again admitted to the Faculty of Medicine.

In 1907 the Ontario Government established at Queen's a Faculty of Education for the purpose of providing professional training for teachers in the secondary schools of the Province. In 1920, however, the work of the Faculty was discontinued because of the decision of the Government to extend the scope of the Normal Schools and to create in Toronto the Ontario College for Teachers.

The School of Mining was founded in 1893 under an Ontario charter and for several sessions all its departments were housed in Carruthers Hall, erected in 1889. The Provincial Legislature in 1900 provided Ontario Hall for the Departments of Physics, Geology and Mineralogy and Fleming Hall for the Departments of Civil, Mechanical, and Electrical Engineering. In 1911 the Provincial Government erected Gordon Hall, which is entirely used by the Department of Chemistry, and through the generosity of the late Professor Nicol and other graduates, Nicol Hall was built to provide class rooms and laboratories for the Department of Mining and Metallurgy. The School of Mining was amalgamated with the University in 1916 and now constitutes its Faculty of Applied Science.

There is now on the University Campus a stately group of buildings, comprising the Old Arts Building (now the Theological Building); Carruthers Hall (Civil Engineering); Kingston Hall (Arts), the gift of the city of Kingston; Grant Hall, erected by students, graduates and friends in honour of Principal Grant; Ontario Hall (Physics, Chemical Engineering); Fleming Hall (Electrical Engineering); Gordon Hall (Chemistry); Nicol Hall (Mining and Metallurgy); the Medical Building (Anatomy and Preventive Medicine); the Medical

Laboratories Building; the Craine Building, named in honour of Dr. Agnes Douglas Craine who left a capital sum of \$375,000 for the teaching of Biochemistry; the Gymnasium; Miller Hall (Geology and Mineralogy), named in memory of the late Dr. W. G. Miller; the Douglas Library, named in memory of Dr. James Douglas, a former chancellor of the University; McLaughlin Hall (Mechanical Engineering), erected through the generosity of Colonel R. S. McLaughlin, LL.D.; the New Students' Memorial Union.

Queen's University, though founded by a Church, was dedicated to the nation. As its constituency expanded, its constitution was gradually broadened until finally in 1912, as a result of an amicable arrangement between the Presbyterian Church and the Trustees of the University, an act was passed by the Dominion Parliament removing the last vestige of denominational control. The registration of students has grown from 665 in 1900 to over 6,500 in the present session, and Queen's has become nation-wide in its work and influence.

GOVERNMENT AND ADMINISTRATION

The administration of the University is vested in the Board of Trustees, the University Council, the Senate, and the Faculty Boards.

THE BOARD OF TRUSTEES

The Board of Trustees consists of the Chancellor, the Principal, and the Rector; one representative from each affiliated college; representatives, as provided for by the Statutes, from the University Council, the Benefactors, the Graduates; and members elected by the Board of Trustees.

The functions of the Board of Trustees are to manage the finances, to possess and care for the property, to procure legislation, to appoint instructors and other officers, and in general to attend to such external matters as do not relate directly to instruction.

THE UNIVERSITY COUNCIL

The University Council consists of the Chancellor, the Trustees, the members of the Senate, and an equal number of members elected by the Graduates from their own numbers.

The annual meeting of the Council is held on the day immediately preceding the Spring Convocation.

The functions of the Council are:

- (1) To elect the Chancellor, except when two or more candidates are nominated, in which case the election is by registered graduates.
- (2) To elect six trustees, two of whom shall retire annually.
- (3) To make by-laws governing the election of the Rector by the registered students, of seven trustees by the benefactors, of six trustees by the University Council, and of six trustees by the graduates.
- (4) To discuss all questions relating to the University and its welfare.
- (5) To make representation of its views to the Senate or the Board of Trustees.
- (6) To decide on proposals for affiliation.
- (7) To arrange all matters pertaining to (a) its own meetings and business, (b) the meetings and proceedings of Convocation, (c) the installation of the Chancellor, (d) the fees for memberships, registration and voting.

THE SENATE

The Senate consists of:

The Principal.

The Vice-Principal.

The Principal of Queen's Theological College.

The Dean of the Faculty of Arts.

The Dean of the Faculty of Medicine.

The Dean of the Faculty of Applied Science.

Three Professors elected by the Faculty of Arts.

Three Professors elected by the Faculty of Medicine.

Three Professors elected by the Faculty of Applied Science.

Two Professors elected by the Faculty of Queen's Theological College.

The functions of the Senate are:

(1) To determine all matters of an academic character which concern the University as a whole.

(2) To consider and determine all courses of study leading to a degree, including conditions of Matriculation, on recommendation of the respective Faculty Boards; but the Senate shall not embody any changes without having previously presented these to the Faculty.

(3) To recommend to the Board of Trustees the establishment of any additional Faculty, Department, Chair or Course of Instruction in the University.

(4) To be the medium of communication between the Alma Mater Society and the Governing Boards.

(5) To determine all regulations regarding the social functions of the students within the University, and regarding the University Library and University Reading Rooms.

(6) To publish the University Calendars.

(7) To conduct Examinations.

(8) To grant Degrees.

(9) To award University Scholarships, Medals, and Prizes.

(10) To enforce the Statutes, Rules, and Ordinances of the University.

(11) To make such recommendations to the Governing Boards as may be deemed expedient for promoting the interests of the University.

THE FACULTY BOARD

The Dean, Professors, Associate Professors, and Assistant Professors, have power to meet as a separate board, and to administer the affairs of the Faculty under such regulations as the Board of Trustees may prescribe. The Principal and Vice-Principal are members of the Faculty Board, of which the Principal is ex-officio president.

The functions of the Faculty Board are:

(1) To recommend to the Senate courses of study leading to a degree, and the conditions of admission.

(2) To decide upon applications for admission or for change of course, subject to the regulations of the Senate.

(3) To submit to the Senate names for both ordinary and honorary degrees.

(4) To arrange the time-table for classes and to edit the Faculty Calendar, subject to the approval of the Senate.

(5) To control registration, and determine the amount of fees and manner of payment, subject to the regulations of the Senate.

(6) To deal with class failures.

(7) To exercise academic supervision over students.

(8) To make such recommendations to the Senate as may be deemed expedient for promoting the efficiency of the University.

(9) To award Faculty Scholarships, Medals, and Prizes.

(10) To appoint such sessional assistants, fellows, tutors, and demonstrators as shall be needed to give instruction in the subjects taught by the Faculty.

(11) To pass such regulations and by-laws as may be necessary for the exercise of the functions of the Faculty.

OFFICERS OF ADMINISTRATION

THE UNIVERSITY

- CHANCELLOR—The Honourable Charles Avery Dunning, P.C., LL.D.
CHAIRMAN OF THE BOARD OF TRUSTEES—J. M. Macdonnell, M.C., K.C.,
M.A., LL.D.
PRINCIPAL AND VICE-CHANCELLOR—Robert C. Wallace, C.M.G., M.A.,
D.Sc., Ph.D., LL.D., D.C.L., F.G.S., F.R.S.C.
VICE-PRINCIPAL EMERITUS—W. E. McNeill, M.A., Ph.D., D.C.L., LL.D.,
F.R.S.C.
VICE-PRINCIPAL AND DEAN OF THE FACULTY OF ARTS—W. A. Mackintosh,
C.M.G., M.A., Ph.D., LL.D., F.R.S.C.
RECTOR—L. W. Brockington, C.M.G., K.C., D.C.L., LL.D.
REGISTRAR—Jean I. Royce, B.A.
DEAN OF WOMEN—A. Vibert Douglas, M.B.E., M.Sc., Ph.D., F.R.A.S.
LIBRARIAN—H. P. Gundy, M.A.
TREASURER—G. J. Smith, B.A., B.Sc.
WARDEN, STUDENTS' MEMORIAL UNION—J. E. Wright, M.B.E.
DIRECTOR, DEPARTMENT OF UNIVERSITY EXTENSION—Harry K. Hutton,
M.A., B.Paed.
DIRECTOR OF SUMMER SCHOOL—H. L. Tracy, B.A., Ph.D.
DIRECTOR, SCHOOL OF NURSING—Dorothy M. Riches, R.R.C., B.A., Reg.N.
DIRECTOR, DEPARTMENT OF PHYSICAL AND HEALTH EDUCATION—F. L.
Bartlett, B.A.
ASSISTANT REGISTRAR—K. Jean Richardson, B.A.
ASSISTANT TREASURER—M. C. Tillotson, M.B.E., B.Com., M.B.A.
ASSISTANT DIRECTOR, DEPARTMENT OF UNIVERSITY EXTENSION—Kathleen
L. Healey.
MEDICAL OFFICER—P. M. Macdonnell, M.A., M.D., C.M.
UNIVERSITY CHAPLAIN AND ADVISER TO VETERANS—Rev. A. M. Lavery,
B.A., B.D.
CHIEF PROCTOR—H. J. Styles, M.S.
SECRETARY OF THE GENERAL ALUMNI ASSOCIATION AND MANAGER OF THE
EMPLOYMENT BUREAU—H. J. Hamilton, B.A.
SECRETARY-TREASURER OF THE ATHLETIC BOARD OF CONTROL—Charles
Hicks.
MAINTENANCE ENGINEER AND SUPERINTENDENT OF BUILDINGS—R. Hinton.
ASSISTANT TO THE SUPERINTENDENT OF BUILDINGS—F. R. Leadlay, B.Sc.

THE FACULTY OF ARTS

(Founded 1841)

DEAN—W. A. Mackintosh, C.M.G., M.A., Ph.D., LL.D., F.R.S.C.

SECRETARY—Jean I. Royce, B.A.

THE FACULTY OF MEDICINE

(Founded 1854)

DEAN—G. H. Ettinger, M.B.E., B.A., M.D., C.M., F.R.S.C.

SECRETARY—H. D. McEwen, M.A., Ph.D.

THE FACULTY OF APPLIED SCIENCE

(Founded 1893)

DEAN—D. S. Ellis, D.S.O., B.Sc., M.A., M.C.E.

SECRETARY—A. Jackson, B.Sc.

THE BOARD OF TRUSTEES

CHAIRMAN—J. M. Macdonnell, M.C., K.C., M.A., LL.D.

SECRETARY—G. J. Smith, B.A., B.Sc.

EX-OFFICIO MEMBERS

The Honourable Charles Avery Dunning, P.C., LL.D. Chancellor

Robert C. Wallace, C.M.G., M.A., D.Sc., Ph.D., LL.D., D.C.L., F.G.S.,
F.R.S.C. Principal

L. W. Brockington, C.M.G., K.C., D.C.L., LL.D. Rector

ELECTIVE MEMBERS

Retire 1950

REV. G. A. BROWN, M.A., B.D.⁵ Kingston, Ont.

MRS. H. B. CAMPBELL, B.A.³ Montreal, Que.

J. A. EDMISON, K.C., B.A.³ Kingston, Ont.

J. M. FARRELL, K.C., B.A., LL.D.⁶ Kingston, Ont.

D. A. GILLIES, B.A.⁷ Arnprior, Ont.

J. E. McASKILL, M.D., C.M.¹ Watertown, N.Y.

J. M. MACDONNELL, M.C., K.C., LL.D., M.A.² Toronto, Ont.

A. G. MACLACHLAN, B.Sc.¹ Kingston, Ont.

W. E. McNEILL, M.A., Ph.D., D.C.L., LL.D., F.R.S.C.⁶ Kingston, Ont.

W. A. NEWMAN, C.B.E., B.Sc.⁴ Montreal, Que.

MRS. JAMES RICHARDSON⁶ Winnipeg, Man.

Retire 1951

H. G. BERTRAM, B.Sc., LL.D. ¹	Dundas, Ont.
E. A. COLLINS, B.Sc., LL.D. ³	Sudbury, Ont.
ELMER DAVIS, ESQ. ⁶	Kingston, Ont.
MISS FLORENCE S. DUNLOP, M.A., Ph.D. ⁶	Ottawa, Ont.
E. C. GILL, B.A. ⁶	Toronto, Ont.
R. D. HARKNESS, D.S.O., M.C., B.Sc. ⁷	Montreal, Que.
M. N. HAY, B.Sc. ⁴	Kingston, Ont.
N. B. MACROSTIE, B.A., B.Sc. ¹	Ottawa, Ont.
D. K. MACTAVISH, K.C., B.A. ²	Ottawa, Ont.
B. M. STEWART, M.A., Ph.D. ³	Hartsdale, N.Y.

Retire 1952

MRS. D. W. BOUCHER, B.A., M.Sc. ²	Kingston, Ont.
THE HONOURABLE MR. JUSTICE C. A. CAMERON, B.A. ¹	Ottawa, Ont.
W. C. CLARK, C.M.G., M.A., LL.D. ³	Ottawa, Ont.
D. D. FINDLAY, B.Sc. ³	Carleton Place, Ont.
SENATOR A. C. HARDY, K.C., P.C., B.A., LL.D. ⁶	Brockville, Ont.
H. G. HILTON, B.Sc. ⁶	Hamilton, Ont.
DENNIS JORDAN, B.A., M.D., C.M. ⁶	Toronto, Ont.
J. C. MACFARLANE, K.C., M.A., D.C.L. ¹	Toronto, Ont.
A. E. MACRAE, B.Sc. ⁷	Ottawa, Ont.
J. B. STIRLING, B.A., B.Sc. ⁴	Montreal, Que.

Retire 1953

T. A. MCGINNIS, B.Sc. ²	Kingston, Ont.
D. I. MCLEOD, B.A. ⁶	Toronto, Ont.
J. A. POLSON, M.D., C.M. ⁶	Bronxville, N.Y.
R. M. SMITH, B.Sc., LL.D. ⁶	Toronto, Ont.

¹Elected by the University Council for three years.

²Elected by the Benefactors for four years.

³Elected by the Graduates for three years.

⁴Elected by the Board of Trustees to represent the Faculty of Applied Science for three years.

⁵Appointed by the Governing Board of Queen's Theological College for one year.

⁶Elected by the Board of Trustees for four years.

⁷Elected by Benefactors to represent the Faculty of Applied Science for three years.

THE UNIVERSITY COUNCIL

Secretary

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Assistant Professor in Surgery

105 Kenilworth St.

J. E. PLUNKETT, M.D.,C.M., F.A.C.P., F.R.C.P. (C),

Assistant Professor in Medicine

31 Monkland St.

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R. W. Graham, M.D.,M.S. (Med.)	260 Metcalfe St.
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F. W. Jeffrey, B.A., M.D.,C.M.	162 Clemow St.
A. S. Kenney, B.A., M.D.,C.M.	147 Carling Ave.
M. O. Klotz, M.D.	Aylmer Rd.
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S. Mirsky, M.D.,C.M.	122 Argyle St.
J. J. O'Connell, M.D.,C.M.	197 4th Ave.
L. N. Pearlman, M.D.	1 Reid St.
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N. Schecter, B.Sc., M.D.,C.M.	434 Daly St.
S. F. Service, M.D., C.M.	260 Metcalfe St.
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G. S. Williamson, M.D., F.R.C.P.(C)	243 McLeod St.
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The Old Medical Building, erected in 1858, was destroyed by fire in August, 1924. It has been replaced by a fire-proof structure which houses the departments of Anatomy and Preventive Medicine.

In the Medical Laboratories building are conducted the courses in Bacteriology, Embryology, Histology, and Physiology.

The department of Pathology is housed in the Richardson Laboratory, attached to the Clinic building, General Hospital.

The Craine Building houses the three departments of Biochemistry, Pharmacology, and Obstetrics.

THE LABORATORIES

THE BIOLOGICAL LABORATORIES

The classes in the Department of Biology are conducted in new quarters in the Old Arts building. The laboratories are provided with the supplies and equipment necessary for the study of plant and animal life and are provided with a separate locker for each student.

The laboratories in Bacteriology are situated on the second and third floors of the Medical Laboratories building; that for Experimental Physiology occupies the west side of the second floor of the building and has all appliances necessary for 50 students working at one time. The work in Histology and Embryology is conducted on the west side of the first floor, where there is accommodation for 120 students.

THE CHEMICAL LABORATORIES

The Chemical Laboratories are in Gordon Hall. On the fourth floor are the laboratories of Medical Organic and Water Analysis. On the third floor are two laboratories for General Chemistry, and a laboratory for Electrochemistry and Colloid Chemistry. On the second or main floor are two laboratories for Quantitative Analysis, two for Organic Chemistry, and one for Industrial Chemistry. On the first or basement floor are three laboratories for Qualitative Analysis, and two

for Physical Chemistry. Besides these there are a number of small separate laboratories for research work. The Biochemistry laboratory is in the Craine Building.

THE PHYSICAL LABORATORIES

The Physics Laboratories occupy the major part of Ontario Hall. The basement contains the large elementary laboratory, the liquid air room, numerous research laboratories and the research workshop. The main floor is given over to undergraduate lecture and laboratory rooms. The second floor has two large lecture rooms, laboratory room for advanced undergraduate classes and for research. The attic is used for workshop and storage purposes.

THE HOSPITALS

The General Hospital is the centre for clinical teaching and all members of its staff are nominated by the Medical Faculty. The Douglas Building houses the Public Wards, Operating Theatres, X-ray, Radio-therapy and Electro-therapeutic departments and various out-patient services. The Nickle Wing is occupied by the Obstetrical department and the Doran Wing is the Children's Hospital. The Isolation Hospital forms part of the General Hospital group and is under its administration. This Hospital affords full opportunity for clinical teaching in infectious diseases.

In the Hotel Dieu Hospital certain public wards are used for clinical teaching by members of its staff nominated by the Medical Faculty.

Similar arrangements hold at St. Mary's of the Lake Hospital.

The Ontario Hospital for Mental Diseases is open for clinical instruction. Its staff are responsible for the teaching of mental diseases. Its large population affords much material for medical, surgical, gynaecological and pathological teaching by members of staff of the Medical Faculty.

Ongwanada Sanatorium operated by the East Central Counties Tuberculosis Association with a capacity of one hundred and fifty beds is affiliated with the University for teaching purposes in diseases of the chest.

The Ottawa Civic Hospital, Carling Avenue, Ottawa, including its Veterans' Pavilion, has 900 beds. Affiliated with the hospital is also a Communicable Diseases Division of 145 beds devoted to contagious diseases. The hospital proper while chiefly made up of active medical,

surgical and gynaecological services has 80 beds and 80 bassinets for maternity patients and 80 for paediatrics and beds also reserved for the surgical specialties. It conducts an organized Out Patient Department. There are six main operating theatres, a cystoscopic room and out patient and emergency operating rooms and a room for fluoroscopic and fracture work. Auxiliary departments housed in the main building include Radiology, Tumor Clinic, Pathology, Blood Bank, Physiotherapy and Pharmacy. A new Pathological wing is in the process of erection. During the war a Veterans' Pavilion of four wards of sixty beds each was constructed for active treatment of veterans. Total admissions amount to some 21,000 a year of which about 50% are surgical and gynaecological.

Internships in the above hospitals are available to members of the final year on graduation. Applications should be made directly to the superintendent of the hospital concerned.

ONTARIO CANCER FOUNDATION, KINGSTON CLINIC

The Ontario Cancer Foundation, Kingston Clinic for the Diagnosis and Treatment of Cancer and Allied Diseases, is operated by the Ontario Cancer Foundation, which was established by the Ontario Government in 1943. The funds of the Foundation were supplied partly by the Provincial Government but the greatest amount came from public subscription. It is situated in the ground floor, Victory Wing of the Kingston General Hospital. The Clinic Staff, who are employed part time, are Officers of Instruction of the Medical Faculty of the University. The policy of the Foundation is to encourage the use of this clinic for the teaching of the students at Queen's University.

While this is not a free clinic, the assistance through public subscription has made it possible to carry on the work at a much less charge to the patient than would ordinarily be the case, and if conditions warrant it no charge is made.

Facilities for treatment include all branches of surgery. This work is done for the most part in the Kingston General Hospital. For irradiation therapy there are available 590 mgms. radium, radon from the Ontario Department of Health and x-ray therapy with 100 K.V., 200 K.V. and 400 K.V. All types of radiotherapy are carried out in the Clinic.

THE LIBRARY

The Douglas Library, named for Chancellor James Douglas, LL.D. (1837-1918), was opened in 1924. Opposite the main entrance, it enshrines the Memorial Cenotaph where a bronze plaque records the names

of 178 Queen's students and graduates who sacrificed their lives 1914-1918.

The ground floor houses a well-equipped book-bindery. On the first floor are the Librarian's Office; the Treasure Room, containing Queen's archives, rare books, manuscripts and incunabula; the Order Offices; entrance to the Stacks; and the Music Room which contains a record library of about 2,000 discs, a combination radio and record-player, a grand piano, well-appointed furnishings, and a music reference library of about 1,100 volumes and 1,200 music scores. On the second floor are the Lorne Pierce Room, housing a collection of Canadiana rich in first editions, rare items, and original manuscripts; the Map Room which contains an extensive collection of historical maps, Canadian and British official war maps of World War II, and the McNicol Collection of works relating to telegraphy, telephony, and radio.

The Main Reading Room with arched ceiling, mullioned windows featuring printers' devices in stained glass, dark oak furnishings, and fluorescent lighting, runs the entire length of the third floor. On open shelves are current numbers of over 800 periodicals and about 5,000 general reference works; three vertical files contain pamphlet material on current topics. The Card Catalogue indexes all library holdings; the system of classification is that of the Library of Congress. The Circulation, Reference, and Reserved Books departments, the Art Room and the Microfilm Room are all on the third floor.

There are five tiers of stacks at the north and south ends of the Library and two in the central part of the building. The Government Document section contains about 40,000 items, the general collection over 210,000 volumes. Many paintings, etchings, and other works of art belonging to the Queen's Art Collection are housed in the Douglas Library, also the Shortt-Haydon collection of Canadian portraits and historical prints.

Pending construction of an Administration Building, university administrative offices are housed in the Douglas Library.

In addition to the main library there are departmental libraries for Chemistry, Biochemistry, Biology, Civil, Mechanical and Electrical Engineering, Mathematics, Geology and Mineralogy, Mining and Metallurgy, Medicine, and Theology.

Library hours: Monday-Friday, 8 a.m. to 10.30 p.m.; Saturday, 8 a.m. to 4 p.m.; Sunday, 2 p.m. to 5 p.m.

THE MUSIC ROOM

The Music Room in the Douglas Library is ideally furnished and equipped for music study and listening. It houses the Carnegie collection of more than a thousand gramophone records, and a number of musical scores and books which are available on loan through the usual library facilities. The equipment also includes a Steinway grand pianoforte, a radio-phonograph, and a high-fidelity phonograph with separate loud-speaker console. The room is open every afternoon during the session, including Saturday and Sunday.

THE UNIVERSITY CONCERT SERIES

The University Concert Series is available to students for \$3 and \$4 for the season.

The series for 1949-50 includes the Montreal Women's Symphony Orchestra; Bartlett and Robinson, duo-pianists; and the Greenwich Village Opera Company.

In addition there is The Young Artists' Series including Pearl Palmason, violinist; and the Winner of the Singing Stars of Tomorrow Contest.

GENERAL INFORMATION

ADMISSION OF STUDENTS

The number of students admitted to the classes of the first year is limited and prospective matriculants should make formal application for admission on forms obtainable from the Secretary of the Faculty. These applications should be in the hands of the Secretary not later than August 16th. Applicants will be notified of the decision of the Committee on Admissions as soon as possible after that date. Only under special circumstances will applications be considered *after* August 16th.

Matriculation requirements must be completed before an application can be considered.

All Ontario candidates for admission must satisfy the following Matriculation requirements:

(1) Ontario Secondary School Graduation Diploma (Junior Matriculation).

(2) Ontario Grade XIII (Senior Matriculation).

A minimum of eight papers, including the following:

English (Literature and Composition).

Mathematics (two of Algebra, Geometry, Trigonometry).

Language—one of:

Latin (Authors and Composition).

Greek (Authors and Composition).

French (Authors and Composition).

German (Authors and Composition).

Italian (Authors and Composition).

Spanish (Authors and Composition).

Chemistry (one paper).

Physics (one paper).

A student may offer in substitution for Grade XIII first year work in the above subjects in the Faculty of Arts, provided that he holds a Secondary School Graduation Diploma. A six-year medical course must follow such registration.

The Faculty of Medicine limits first year registration. A selection from applicants for admission will be made on the basis of their qualifications.

Candidates from Provinces of Canada other than Ontario must present certificates of a standard equivalent to that required for students from the Province of Ontario.

Intending students are reminded that a University degree in Medicine does not in itself confer the right to practise the profession of medicine. In each Province of Canada and in each one of the United States the right of licensure is vested in a Licensing Body which has its special laws and requirements. In many cases a special standard of general education is insisted upon before beginning the study of medicine. In order that disappointment and loss of time may be avoided, the University requires students to register with the licensing body of their home Province or State before beginning their medical course.

Full information as to the requirements for registration in the various provinces may be obtained from the Registrars of the Provincial Medical Boards (see page 59).

Prospective matriculants must submit with their applications for admission the certificates on which they claim standing.

Certificates of Matriculation in any University may be accepted *pro tanto* at the discretion of the Faculty.

VACCINATION

Candidates for admission to all faculties must submit a certificate of successful vaccination with application.

MATRICULATION EXAMINATIONS

The Matriculation examinations are conducted for the Universities of Ontario by the University Matriculation Board. They are held in June of each year at the Universities and at each High School and Collegiate Institute in Ontario and at such other centres as may be approved by the Board.

The Secretary of the University Matriculation Board, Parliament Buildings, Toronto, will furnish, on request, the official circular which contains full information concerning dates, fees, standards, curriculum, and examination centres. The University also publishes an announcement containing all particulars regarding Matriculation, which may be obtained from the Registrar of the University.

REGISTRATION

Students should register on the day set for such registration in the diary on page 5.

FRATERNITIES

By resolution of Senate no student registered with the University may form or become a member of any chapter of an externally-affiliated fraternity or sorority at or near Kingston.

CURRICULUM

Candidates for the degrees of M.D., C.M. must complete a period of six years' study consisting of six sessions of approximately eight months each, the final session being devoted entirely to clinical work in either Kingston hospitals or the Ottawa Civic Hospital.

Attendance on full courses of instruction is required in the following subjects of study:

1st Year:—General Biology, General Chemistry, Physics, English.

2nd Year:—Anatomy, Organic Chemistry, Histology, Embryology, Physics, Psychology, Statistics.

3rd Year:—Anatomy, Physiology, Biochemistry, Bacteriology, Psychopathology.

4th Year:—Pathology, Pharmacology, Surgical Anatomy, Surgery, Medicine, Preventive Medicine, Psychopathology, Jurisprudence, Radiology.

5th Year:—Surgery, Medicine (including Therapeutics), Obstetrics and Gynaecology, Pathology, Eye, Ear, Nose and Throat, Pediatrics, Psychiatry, Radiology and Physical Therapy, Parasitology, Anaesthesiology, Urology, Preventive Medicine.

6th Year:—The work in the sixth year is purely clinical and is carried out in the wards, out-patient departments, operating theatres and delivery rooms of the Kingston hospitals and of the Ottawa Civic Hospital under the direct supervision of the members of the clinical staffs. Each student will spend approximately sixteen weeks at each centre. The clinical work will be supplemented and correlated by daily conferences, pathological, clinical pathological, radiological, therapeutic and obstetrical. The final examinations on completion of the work of the

sixth year serve both for the University degrees and for the certificate of the Medical Council of Canada.

Certificates of attendance on lectures may be accepted from incorporated medical schools in the British Dominions and others recognized by British Universities and licensing bodies. Other certificates of attendance on lectures and examinations may be accepted at the discretion of the Faculty.

EXAMINATIONS AND GRADUATION

Students in the first three years must attend a minimum of 90 per cent., and students in other years a minimum of 80 per cent., of the lectures and laboratory exercises in the subjects for which they are registered to be admitted to the final examinations in those subjects.

The Faculty may at any time either during the term or after the close of the term, require any student to withdraw from the Faculty of Medicine whose conduct, attendance, work or progress is deemed unsatisfactory.

The examination marks are arranged in the following grades: A=80 to 100%, B=70 to 79%, C=60 to 69%, D=under 60%, failure. A student must have obtained pass standing (60%) in all the examinations of any year before proceeding to the higher year. Pass standing may be obtained at the regular spring examinations, or at the supplemental examinations.

Examination papers of candidates failing by only a few marks are reread with care and there is little likelihood of the original mark being changed by a further rereading. Students who wish to have a paper reread by the instructor and an additional examiner must make application within two months of the examination and pay a fee of \$10. If as a result of a rereading a mark should be raised to a pass, the fee will be refunded in full to the student.

Supplementals

Permission to write supplemental examinations may be granted to any student who has failed in no more than 50% of the examinations of the first, second or third year, or in no more than three examinations of any succeeding year.

(a) Except in the case of the first year, a student who fails at the supplemental examinations will be permitted to repeat his year unless otherwise conditioned. No student will be permitted to repeat more than one year.

(b) A student of the third year who fails in more than 50% of the spring examinations, and of the fourth, fifth and sixth years who fails in more than three examinations may be permitted to repeat his year.

(c) In the case of the clinical subjects, on which both written and oral examinations are held, the student will be required to try both the written and oral supplemental in the event of failure in either.

Withdrawal

(a) A student of the first or second year who fails in more than 50% of his spring examinations will be required to withdraw.

(b) A student of the third year who fails in more than 50% on the spring examinations and who has written a total of three or more supplementals in his first two years will be required to withdraw.

(c) A student who repeats his year and fails will be required to withdraw.

(d) A student who has successfully repeated a year, but fails to get his standing in any subsequent year, will be required to withdraw.

A candidate will not be admitted to an examination unless he has paid all University fees.

EXAMINATIONS

Examinations are required at the end of every session as follows:

At the end of the first session:—

General Biology, General Chemistry, Physics, English.

At the end of the second session:—

Anatomy, Organic Chemistry, Physics, Histology, Embryology, Psychology, Statistics.

At the end of the third session:—

Anatomy, Physiology, Biochemistry, Bacteriology, Psychopathology.

At the end of the fourth session:—

Pathology, Pharmacology (including Materia Medica), Surgical Anatomy, Surgery, Medicine, Preventive Medicine, Psychopathology, Jurisprudence, Radiology.

At the end of the fifth session:—

Surgery, Clinical Surgery, Medicine, Clinical Medicine, Obstetrics and Gynaecology, Pathology, Pediatrics, Eye, Ear, Nose and Throat, Psychiatry, Radiology, Parasitology, Anaesthesiology, Preventive Medicine, Urology.

At the end of the sixth session:—

Surgery, Clinical Surgery, Medicine, Clinical Medicine, Obstetrics and Gynaecology, Oral in Obstetrics and Gynaecology, Pathology, Oral in Pathology, Preventive Medicine, Oral in Preventive Medicine, Pediatrics, Eye, Ear, Nose and Throat, Radiology.

FEES

First Year

Sessional fee (including Registration, Tuition, Examinations, Library, and Degree fee)	\$ 300.00
Student interests (including Health Insurance, Athletics, Alma Mater Society, "Queen's Journal", Aesculapian Society, and Union)	30.50
Sessional Laboratory Fee	12.00

Second, Third, Fourth, Fifth and Sixth Years

Sessional fee (including Registration, Tuition, Examinations, Library and Degree fee)	322.00
Student interests	30.50
Sessional Laboratory fee	6.00
Special Fees, payable when incurred:	
Late Registration	3.00
Supplemental examination in one subject	10.00
Each additional subject	2.00
Degree of Master of Science in Medicine (see p. 46).	
Diploma in Medical Radiology (see p. 47).	
Extra Fee for Degree in Absentia	10.00
Pro tanto fee	10.00

Remit funds by accepted cheque, postal order, or bank draft, payable to Queen's University. Cheques or bank drafts on any point where there is a branch of the Bank of Montreal will be received at par; all other cheques should have 1/8 of 1%, minimum 15c, added to cover exchange, or drawn plus exchange.

Payment of fees

In the case of the First Year fees may be paid in two equal instalments, in which case an additional \$5.00 will be added to the first instalment. This first instalment and the laboratory deposit must be paid at the time of registration, and the balance paid on or before January 6th, 1949. No student will be admitted to classes until the above conditions have been complied with, nor will he be permitted to continue the work of the second term until the fees have been paid in full.

In the case of other years, fees may be paid according to one of the following three plans:

- (1) In full during the first week.
- (2) On payment of an additional \$5.00, in two halves, the first payment including the \$5.00 to be made during the first week, and the second by the beginning of the second term.
- (3) Those who find it impossible to comply with either of the above plans may make special arrangements direct with the Treasurer.

BOARD AND ROOM

During the session 1948-49 students have paid from \$8.00 to \$9.50 a week for board, and \$4.00 to \$5.00 for room, so that satisfactory board and lodging may be obtained at from \$12.00 to \$15.00 per week. Lists of boarding and lodging houses may be obtained from the Housing Office.

CO-OPERATIVE RESIDENCES

Berry House and Collins House, operated by the Science '44 Co-operative Inc., are open to men students of all faculties. Room and board for the session 1948-49 was \$10.00 per week.

Boucher House, operated by the Science '44 Co-operative Inc., is open to women students who have completed their first academic year. Room and board for the session 1948-49 was \$10.00 per week.

For further information write:—

The Membership Committee,
144 Lower Albert Street,
Kingston, Ontario,

enclosing a self-addressed stamped envelope.

MICROSCOPES

Every student entering the Faculty of Medicine will be required to have, at the commencement of his studies, a first-class microscope of approved design. Such an instrument is an essential part of the equipment of a practitioner of medicine.

The Faculty of Medicine have made arrangements whereby such instruments can be purchased at a low price, either for cash at cost or by three equal annual payments which include carrying charges. In

the latter case the microscope is retained by the University during vacations until payment is completed. In recent years the cost for outright purchase has been approximately \$200.00.

Further information regarding the microscopes and methods of payment may be obtained from the Secretary of the Faculty.

PHYSICAL WELFARE OF STUDENTS

A. HEALTH INSURANCE

Queen's University administers a Health Insurance Fund by arrangement with the Alma Mater Society and with the Summer School Association. This fund is derived from a special fee of \$4 paid by each winter student and \$1 paid by each Summer School student and is used to provide medical and hospital care as follows:

I. MEDICAL CARE

The services of the University Medical Officer are available to students without charge.

Office: Kingston General Hospital—Telephone 5521. Entrance by way of the Ambulance driveway (on Stuart Street, west of Front Entrance), turning left and up the short flight of steps.

Hours: Women: 1:30-2 p.m. Tuesday to Friday, Monday 2 p.m.

Men: 4:30 to 5:30 p.m. Monday to Friday.

All students: Saturday 1:15-1:45 p.m. Sundays by appointment.

A Student may choose another physician or obtain the services of a specialist, surgeon or consultant but the University pays no part of the charge thus incurred.

II. HOSPITAL CARE.

Hospital services, including room, food, ordinary medicines and treatment and care of nurses-in-training, are provided at the Kingston General Hospital subject to the following provisions and limitations:

A. *Term of Insurance.* The purpose of Health Insurance is to provide for the incidental illnesses of students. It is not for those whose term of illness is so long as to cause loss of year or of residence credit. In the winter it is in force from the day of registration till the day of the last examination in the spring. In the case of those about to graduate it is extended to the day of Convocation. In summer it is in force from the day of registration till the last day of lectures.

B. *Admission.* Hospital care under the plan is available only to students whose admission is ordered or approved by the University Medical Officer.

C. *Discharge.* The University Medical Officer will decide when a patient is ready for discharge and then benefits of the plan will cease upon that date.

4. *Special Charge to Patients.* Each student will pay to the hospital 50 cents a day from the date of admission to the date of discharge under the provisions of sections A, B, and C above.

E. *Room.* The plan provides for semi-private room only, unless in the judgment of the Medical Officer the condition of the patient requires a private room. If the patient engages a more expensive room than the Medical Officer selects, he must pay the difference in cost.

F. *Nurses.* The services of the regular floor nurses are included in hospital care, but if special nurses over and above the regular staff are required or engaged the cost must be borne by the patient.

G. *Chronic Illness and Operations.* Hospital care does not apply to chronic illness which does not demand immediate attention. Nor does it cover operations not of an emergency character, e.g. removal of tonsils or removal of quiescent appendix.

H. *Special Treatments.* The University will not pay for X-Ray examinations or for treatments involving special charges (for example, massage, electrical treatments and surgical consultations). For the benefit of mining students and others in groups of ten the Kingston General Hospital gives the following special rates for X-Ray examinations:

One flat film of the chest—\$3.

Stereoscopic film, if required—\$5.

I. *Out-patients.* The Kingston General Hospital will provide ordinary out-patient service without charge and will fill prescriptions issued by the medical officer at a charge of 25 cents for ordinary prescriptions and at actual cost of drugs not included in the Hospital pharmacopoeia.

B. PHYSICAL EXAMINATIONS

All students registering for the first time at a winter session of the University are required to have a physical examination. At the beginning of the session the University Medical Officer sets up a panel of physicians and psychiatrists to make the examinations. Each student is given an appointment. Those for whom the hours named are inconvenient should arrange for other students to take their places.

C. X-RAY CHEST SURVEY

By a regulation of the Senate of the University the students in the first and fifth years of the Medical Faculty and the first and final years of the other faculties and schools are required to have an X-ray examination of the chest each year. An appointment is made for each student and anyone who fails to report is required to take the X-ray at some later time at his own expense.

D. CERTIFICATE COVERING ABSENCE FROM CLASS

A students not receiving hospital care but alleging illness as a reason for missing lectures or laboratory work must present a doctor's certificate immediately at the close of treatment in order to receive consideration. Ordinarily absences beyond a total of one-eighth of the possible attendance, whether due to illness or any other cause, will subject candidates to the penalties specified in the Calendar for deficient attendance.

ATHLETICS

As a member of the Canadian Intercollegiate Athletic Union, Queen's gives every opportunity for students to compete in intercollegiate athletics on some of the many teams representing the University, while the student who is unable to find a place on a University team has the chance to play in inter-year and inter-faculty games.

Each student pays an Athletic Fee of \$5.00, which is collected with the sessional fee and paid to the Athletic Board of Control, by whom all athletic activities, the rink, the playing fields and the gymnasium are controlled.

FACILITIES FOR ATHLETICS

Queen's University provides ample facilities for athletics. The gymnasium is one of the finest in Canada with a swimming pool of full Olympic size. In the University grounds is a large covered skating rink with artificial ice. Adjoining the University is the football field, with the George Richardson Memorial Stadium, given by the late Dr. James Richardson, formerly Chancellor of the University, in memory of his brother, Captain George Richardson, a graduate of Queen's and a former athlete who was killed in the Great War. There is room and equipment for all students who wish to take part in football, hockey, badminton, basketball, field hockey, tennis, track athletics, archery, swimming, diving, boxing and wrestling. Exceptionally good facilities for skiing are available at Kingston Mills, about five miles from the University proper.

STUDENT ADVISERS

In order to assist students in general methods of study and in the solution of personal and class problems, a student adviser has been appointed for the first year.

Adviser for the year 1949-50—Professor J. K. Robertson.

THE ALMA MATER SOCIETY

Queen's was the first University in Canada to introduce Student Government. All students are members of the Alma Mater Society, the chief instrument of student government, and are expected to share in its duties and responsibilities.

ALMA MATER SOCIETY LECTURE

In 1939, as a contribution from the student body to the Centenary Endowment Fund, the Alma Mater Society gave the University its accumulated reserve of \$1,711. The income will be used to provide an annual lecture to be known as the Alma Mater Society Lecture.

THE AESCULAPIAN SOCIETY

All students registered in the Faculty of Medicine are members of the Aesculapian Society, and amenable to its rules and regulations.

Office Bearers

Honorary President	Dr. J. D. Hamilton
President	J. R. Gordon
Vice-President	C. G. MacKenzie, B.A.
Secretary	W. H. Barnes
Assistant Secretary	H. C. Cameron
Treasurer	Jane Logan
Athletic Stick	N. B. Urie
Senior A.M.S. Representative	B. E. Morgan
Junior A.M.S. Representative	D. W. Geiger
C.A.M.S.I. Representative	C. G. MacKenzie, B.A.
Permanent Secretary-Treasurer	Dr. Eldon M. Boyd

MILITARY SERVICES

UNIVERSITY NAVAL TRAINING DIVISION

The University Naval Training Division, Queen's University, was organized in March 1943, under the direction of Lieutenant S. T. Hill, Commanding Officer H.M.C.S. "Cataragui".

University Naval Training Divisions were established in Canadian Universities during the war to provide naval training for university students before entry into active service in the Navy. From this source came many hundreds of keen young men who had an excellent war record in the service. These Divisions are being continued in the universities to provide a Naval Officers' training programme through which university students may become commissioned officers in the Royal Canadian Navy (Reserve). Opportunity is provided also in certain branches for entry into Royal Canadian Navy (Permanent Force) as commissioned officers who will follow the Navy as a career.

The programme consists of sixty hours' training during the academic year given at H.M.C.S. "Cataragui", and a minimum of two weeks' training aboard ship during the summer.

CANADIAN OFFICERS' TRAINING CORPS

The Queen's University Contingent of the C.O.T.C., formed at the outbreak of the last war under Lieutenant-Colonel A. B. Cunningham, was organized as a Unit of the Militia in February, 1915. Reorganized after the war by Colonel A. Macphail, C.M.G., D.S.O., it is now commanded by Lieut.-Col. E. A. Walker.

Basic military training is provided for students in all faculties of the University.

HIGHER DEGREES

A standing committee on Medical graduate studies consisting of the Principal, the Dean, the Secretary and four members of the staff of the Medical Faculty shall consider all applications for graduate degrees in Medicine and shall report to the University Committee on Graduate Studies on the fitness of the candidate to enter a graduate course and recommend to the above Committee the prescribed programme of work.

THE DEGREE OF MASTER OF SCIENCE IN MEDICINE

Prerequisite: A candidate for the degree of M.Sc. (Med.) must have taken the degree of M.D. with a minimum standing of 75% in his special subjects and an average of 70% in the last three years of his Medical course. A candidate who does not meet this requirement may be accepted only by special permission of the Medical Faculty.

Application: Application for admission to the M.Sc. (Med.) course must be made to the Registrar of the University in writing at least two weeks before the opening of the session. Candidates, if not graduates of Queen's University, must send official certificates giving full details of their academic training. An outline of proposed studies, based upon the requirements described below, must accompany the application.

Curriculum: The course consists of two parts as follows:

(1) Research and thesis, representing not less than half the session's work. Except by special permission the thesis must be submitted by May 1st for a degree in the Spring and by September 20th for a degree in the Fall.

(2) Lectures or reading, laboratory or clinical work cognate to that of the field of study. Ordinarily half of this cognate work will be done in the department in which the candidate is carrying out his research, and the other half in one or more other departments not necessarily in the Medical Faculty.

Examinations: The candidate will be required to take the following examinations:

(1) Two written examinations—one in each half of the cognate work referred to in part 2 under Curriculum. The candidate must

obtain at least seventy-five per cent in examinations taken in the Faculty of Medicine and at least second class honours in examinations taken in the Faculties of Arts or Applied Science.

(2) An oral examination on the subject of the candidate's research.

The examination will be conducted by a board of examiners appointed by the Committee on Graduate Studies on the request of the member of staff under whose direction the student is carrying on his research. This board will include: (a) at least two members of the department concerned; (b) at least two other members of the University teaching staff, not members of the department concerned, to be selected by the department concerned.

The Chairman of the Committee on Graduate Studies shall act as Chairman on examining board or shall appoint a member of the University teaching staff, not a member of the department, to do so.

Each candidate for the Master's degree must submit three typed copies of his thesis to the Registrar not less than three weeks before the date of the Convocation at which he plans to obtain the degree. The thesis must be read and approved by the members of the examining board before the candidate is admitted to the oral examination. Two copies of the thesis shall become the property of the University, one of them to be deposited in the University library, the other to be in the care of the department concerned.

Residence: A candidate for the degree of M.Sc.(Med.) must do all of his work (towards this degree) in residence at the University, during at least one session.

Fees: The annual fees are as follows: Sessional fee, \$120.00; Student Interests, including membership in the Aesculapian Society, \$30.50; a laboratory fee of \$6.00. The degree fee is \$20.00 to be paid by April 1st.

Teaching Assistance: Candidates for the degree of M.Sc.(Med.) may give not more than 10 hours per week during the academic year to assisting members of the Faculty in teaching or in other academic or clinical duties, providing that the time so lost is made up by work on their problem of research during the summer vacation or providing they extend their course over two academic years. A candidate in full time employment in the University or elsewhere is not normally accepted as a candidate for the M.Sc.(Med.) degree.

DIPLOMA IN MEDICAL RADIOLOGY (D.M.R.)

The Faculty of Medicine, Queen's University, has introduced a graduate course leading to a Diploma in Medical Radiology.

Candidates for the Diploma must

- (1) be graduates of a Medical School recognized by the Senate,
- (2) have spent at least one year after graduation as an interne in a recognized hospital or have had two years' experience in general practice.

The curriculum leading to the Diploma extends over

- (A) one academic session at the University,
- (B) two terms of eleven months each of service and training in a recognized Radiological Department.

Not more than two candidates will be accepted in any one academic session at the University. The selection of candidates rests with a Board appointed by the Medical Faculty.

The following courses will be provided:—

PART I

1. Anatomy (radiographic)
2. Pathology
3. Radio-biology.
4. Radio-physics.
5. Radiographic Technique.

These subjects will be given during the academic session.

PART II

6. Diagnostic Radiology
7. Radio-therapy.
8. General Medicine and Surgery.

Study of these subjects is spread over the three terms.

Examinations:

Part I. An examination will be held at the end of each academic session.

Part II. After passing the examination in Part I and having fulfilled the conditions of curriculum laid down in (B) above.

Candidates who have passed the examinations will be granted the Diploma in Medical Radiology (D.M.R.).

Fees. The fee for the Diploma is \$250.00.

Further information as to details of the courses may be obtained on application to the Secretary of Faculty.

SCHOLARSHIPS AND HONOURS

Limitation of Awards: (1) Scholarships, except those awarded in the final year, are tenable only by students in residence in the session following the award. (2) Students may not hold scholarships unless they have successfully completed the work of the year in which they are enrolled. (3) No student may receive more than 50% of available prize money in one year. (4) No student may receive more than one-third of the available prizes in one year. (5) Essay and other awards not based upon results of regular term examinations are exempted from the above conditions. (6) The honour of the award is given in case the winner becomes ineligible as above. It is understood that these regulations should be used as a guiding principle in the awarding of prizes, and applied with some elasticity, as a rigid interpretation will not always be practicable. In the case of essay prizes, these will be awarded only for essays of conspicuous merit.

The following scholarships and honours are awarded to students in the Faculty of Medicine. The scholarships, except those awarded in the final year, are tenable only by students in residence in the session following the award. Students may not hold scholarships unless they have successfully completed the work of the year in which they are enrolled.

THE ROBERT BRUCE SCHOLARSHIP

The Robert Bruce Scholarship of about \$70 is awarded at the end of the first year to the student making the highest number of marks in the examinations of that year. One-third of the value of the Scholarship will be paid to the winner in each of the second, third, and fourth years of his course, provided he is in attendance in the Faculty in which the award was made.

This Scholarship has been established under provisions in the will of the late Robert Bruce of Quebec, and similar scholarships are awarded in the Faculties of Arts and Science.

SOCIAL ENGINEERING PRIZE

Value \$50. Founded by A. E. MacRae of Ottawa. Awarded annually under the following conditions as stated by the donor.

"The object of this prize is to promote on the part of the individual the practice of factually appraising his every act from the point of view of others concerned so that he may make it easiest for them to co-operate in achieving a desired objective. It is based on the idea that maximum social progress primarily demands of education the production in individuals of capacity to lead others in the doing of things which, in the long view, are for the continuing good of all. A keen sense of responsibility for the common good, as opposed to the mere temporary benefit of a particular agency, is essential in efficient social leadership.

"It is to be presented annually to the student in attendance at Queen's University who, prior to the beginning of his or her graduating year, has developed and exhibited greatest capacity in leading the student body, or any portion of it, in accomplishing purposes which are considered good by the majority of the student body.

"The recipient shall be selected by a committee consisting of the presidents of the faculty societies and the Levana Society and the Principal of the University or his nominee."

KHAKI UNIVERSITY AND Y.M.C.A. MEMORIAL FUND

This fund is part of a sum, left from the Khaki University after the war of 1914-18, which was divided among the Canadian Universities.

The interest, amounting to \$240, will be used to award one or more scholarships open to undergraduate students in any Faculty. In awarding these scholarships the need as well as the standing of applicants will be considered and preference will be given to sons or daughters of soldiers of the Great War. Applications will be received by the Registrar up to April 1 of each year.

B'NAI B'RITH KINGSTON, BURSARY

Value \$50. Founded by the B'nai B'rith Lodge of Kingston. This Bursary will be awarded annually to a student of promising ability but straitened circumstances. The award will be made on the basis of the final examinations. Applications will be received by the Registrar up to April 1 of each year.

THE O. M. MONTGOMERY MEMORIAL FUND

Established by the Aluminum Company of Canada in memory of Mr. O. M. Montgomery, who graduated from Queen's University in Electrical Engineering in 1905. This Fund will be used to provide bursaries for worthy students in need of financial help. It will be ad-

ministered by a Committee consisting of the Principal, the Vice-Principal, the Registrar, and a representative of the Aluminum Company. Awards may be made in any Faculty, and may only be regarded as gifts at the discretion of the Committee when made to sons or daughters of employees of the Aluminum Company. Otherwise repayment is expected in one or both of the following ways:

- (1) By service to the University if the beneficiary has time and is qualified for the work available. Such service shall be assistance in a department, or office, or library, or laboratory, or some other comparable employment.
- (2) By return in cash of the sum granted, or of the part not worked out. In such case the award is regarded as a loan without interest, payable at some convenient time to be agreed upon.

ANDRINA MCCULLOCH SCHOLARSHIPS IN PUBLIC SPEAKING

These scholarships, to a value of \$400, are awarded annually for the promotion and encouragement of public speaking in the University. They are awarded in the following subjects:—

Drama

Two scholarships are awarded as a result of an audience poll at the two main productions of the Queen's Drama Guild.

Public Speaking

Scholarships are awarded as a result of a public speaking competition held in January. All members of the Science Public Speaking Forum and the Public Speaking Club, who have attended at least five meetings of their club, are eligible to compete.

One scholarship will also be awarded to the best speaker of the session in the Model Parliament at the discretion of the Speaker.

Reading

Scholarships are awarded for the best readers in open competition. All students are eligible to enter for this.

Debating

A separate panel of judges awards scholarships from the Andrina McCulloch fund to the best speakers at the Debating Union's Medal Debate.

Presentation of Thesis Material

All graduate students are invited to deliver a ten-minute talk on their thesis project to a panel of judges drawn from the Committee on Graduate Studies. Two awards are made for the most lucid speakers.

Entry forms for these competitions are available from the Registrar's Office and applicants must return their form, completed, by December 15th, 1948.

AMERICAN LEGION SCHOLARSHIP

Value \$100. Established by Dr. George Hayunga of New York. To be awarded annually to an officer cadet of the Contingent. The selection will be made by the Joint Services University Training Committee from a group recommended by the Commanding Officer. In determining the award academic standing will be taken into consideration. (If the winning student is in his final year the scholarship will be awarded as a prize.)

C.O.T.C. SCHOLARSHIP

Value \$100. Maintained by the regimental funds of the Queen's University Contingent of the Canadian Officers' Training Corps. To be awarded annually to an officer cadet of the Contingent. The selection will be made by Joint Services University Training Committee from a group recommended by the Commanding Officer. In determining the award academic standing will be taken into consideration. (If the winning student is in his final year the scholarship will be awarded as a prize.)

THE REUBEN WELLS LEONARD SCHOLARSHIPS

Under the will of the late Reuben Wells Leonard provision was made for the following Scholarships:

REUBEN WELLS LEONARD SPECIAL SCHOLARSHIPS

Special Reuben Wells Leonard Scholarships for merit and need will be awarded in varying amounts to students of promising ability but straitened circumstances. The awards will be made on a loan or service basis.

REUBEN WELLS LEONARD FELLOWSHIPS

Fellowships of varying amounts will be available during the session 1949-50 for Queen's graduates continuing their work at Queen's University. Application for these Fellowships will be received by the Registrar up to April 1st.

THE W. W. NEAR AND SUSAN NEAR SCHOLARSHIPS AND BURSARIES

Under the wills of the late W. W. Near and his widow, the late Susan Near, provision was made for the following scholarships and bursaries.

1. An annual scholarship of the value of \$80 will be awarded to the student with the highest standing in each of the first, second, third and fourth years.

2. An annual scholarship of the value of \$40 will be awarded to the student taking second place in each of the first, second, third and fourth years.

3. An annual scholarship of the value of \$50 will be awarded to the student taking second place in the fifth year.

These scholarships will be tenable only by students who are in attendance the year following the award.

4. An annual scholarship of the value of \$100 will be awarded to the sixth year student with the highest standing throughout his course.

5. An annual scholarship of the value of \$70 will be awarded to the sixth year student with the second highest standing throughout his course.

6. Three bursaries of the value of \$100 each will be awarded annually to students who in any year have shown an interest in and aptitude for practical work in a laboratory, and will undertake to carry out work of a research nature in the laboratory during the year following the award.

Applications for these bursaries must be made to the Secretary of the Medical Faculty not later than April 1st of each year.

ROBERTA McCULLOCH SCHOLARSHIP IN ENGLISH

Founded by the late Andrew McCulloch, M.A., of Thorold.

Value \$40. Awarded annually to the student standing first in Medical English.

PIPE BAND SCHOLARSHIP

Value \$25. Maintained by the Queen's University Pipe Band. Awarded annually to the best piper among first year students in all faculties on the basis of a piping contest.

THE N. F. DUPUIS SCHOLARSHIP

The N. F. Dupuis Scholarship of \$50 awarded to the student making the highest number of marks in the examinations in Chemistry of the second year. The Scholarship was founded by the graduates as a mark of their appreciation of the long and effective services of the late Dr. N. F. Dupuis, Professor of Mathematics.

SYLVANUS JOY SCHOLARSHIP

A Scholarship of \$40 awarded to the student making the highest number of marks in Pharmacology.

THE D. T. SMITH PRIZE IN PHARMACOLOGY

A prize, value \$20, awarded to the student making the second highest number of marks in Pharmacology.

THE VICTOR LYALL GOODWILL MEMORIAL SCHOLARSHIP IN INTERNAL MEDICINE

Value \$100. This Scholarship was founded in 1937 by Mrs. Florence M. Goodwill of Charlottetown, Prince Edward Island, in memory of her late husband Dr. Victor Lyall Goodwill. It will be awarded annually to a student at the end of his Fifth year in consideration of:—(1) his standing in written and clinical oral examinations of the session, (2) his capacity to examine patients as brought out by the written clinical histories of cases assigned to him during the session.

REUBEN WELLS LEONARD PENULTIMATE YEAR SCHOLARSHIPS

Under the will of the late Reuben Wells Leonard provision was made for one Scholarship of the value of \$300 and one of the value of \$200, to be awarded to the students obtaining highest and second highest standing respectively at the end of the penultimate year. The student must be in attendance in his final year.

THE DAVID EDWARD MUNDELL PRIZE

The David Edward Mundell Prize of \$40, awarded to the student making the highest aggregate marks in the Surgical Applied Anatomy final examinations of the fifth and sixth years.

THE DEAN FOWLER SCHOLARSHIP

The Dean Fowler Scholarship of \$40 awarded to the student making the highest number of marks in the examinations of the sixth year.

SIR JOHN C. SCHULTZ MEMORIAL SCHOLARSHIP

Value \$80. Founded by his widow in memory of the late Sir John C. Schultz, K.C.M.G., M.D., LL.D., F.R.S., a leader of the loyal settlers against Riel in the Rebellion of 1869-70, and later a Lieutenant Governor of Manitoba. The Scholarship is based on the combined results of the sessional examinations of the fourth and fifth years, and is awarded when the student is in actual attendance in his final year. It is open only to male students of British descent, and the holder must be of good Christian character, a total abstainer, and of satisfactory scholastic attainments. Preference will be given to non-smokers and to students who are planning to become medical missionaries. Applications will be received by the Secretary up to November 30th of each year.

THE VICTOR LYALL GOODWILL MEMORIAL PRIZE

Value \$100. This prize was founded in 1936 by Mrs. Florence M. Goodwill of Charlottetown, Prince Edward Island, in memory of her late husband Dr. Victor Lyall Goodwill. The award is made annually to the student who submits the best essay dealing with some aspect of Mental Health or Disease.

Essays submitted for this prize should be handed in not later than March 15th.

ONTARIO MEDICAL ASSOCIATION PRIZE IN PREVENTIVE MEDICINE

An annual prize of twenty-five dollars has been instituted in the class of Preventive Medicine by the Ontario Medical Association. The first award of the prize was made at the close of session 1931-32 to the student who gained the highest marks in the class examinations.

PROFESSOR'S PRIZE IN PREVENTIVE MEDICINE

A prize awarded to the student who is *proxime accessit* in the class.

THE EDGAR FORRESTER SCHOLARSHIP

Founded under the will of the late Edgar Forrester, B.A., M.D.

Value \$40. Awarded to the student making the highest number of marks in final year Medicine and Clinical Medicine.

THE HANNAH WASHBURN POLSON PRIZE

A prize of \$50.00, endowed by Dr. James A. Polson of New York, for proficiency in Clinical Diagnosis in Medicine, Surgery and Obstetrics. The award will be made to a student in the final year.

THE NEIL CURRIE POLSON MEMORIAL PRIZE

The Neil Currie Polson Memorial Prize of \$50, awarded to the student in final year Medicine judged by his teachers to be the best adapted to apply his training in practice.

PROFESSOR'S PRIZE IN SURGERY

A prize awarded to the student in the final year making the highest standing in Surgical Subjects.

PROFESSOR'S PRIZE IN OBSTETRICS AND GYNAECOLOGY

A prize awarded to the student in the final year making the highest standing in these subjects.

THE MYLKS MEDAL IN OBSTETRICS AND GYNAECOLOGY

Awarded to the student in final year Medicine who has had the best record in Obstetrics and Gynaecology during his course.

THE ISOBEL MCCONVILLE SCHOLARSHIP

Under the will of the late Dr. Isobel McConville provision was made for the following scholarships:

1. Value \$100. Awarded annually to the student in fifth year making the highest number of marks in Gynaecology.
2. Two scholarships—one of \$50, the other of \$25—available to students of the fourth year for the best and second best essays on any approved surgical subject.

GEORGE AND MARY LOUISE PATTON SCHOLARSHIP

Value \$80. Awarded annually to the student in the fourth year who in the opinion of the professors concerned shows the greatest aptitude in the clinical work of the year.

TORONTO BRANCH OF THE GENERAL ALUMNI SCHOLARSHIP

Value \$100. Given by the Toronto Branch of the General Alumni Association for a period of five years. Awarded to the student of the third year with the highest standing in Physiology and Bacteriology.

UNIVERSITY MEDALS

A University Medal awarded to the student making the highest number of marks in the examination of the sixth year in Medicine, Clinical Medicine, Pathology, Preventive Medicine and Pediatrics.

A University Medal awarded to the student making the highest number of marks in the examinations of the sixth year in Clinical Surgery, Surgery, Eye, Ear, Nose and Throat and Radiology.

The following awards are not endowed and are made only if the money is available:—

THE BERNARD THOMAS MCGHIE MEMORIAL SCHOLARSHIP

The Bernard Thomas McGhie Memorial Scholarship of \$100 awarded to a student in the fifth year on the basis of his academic standing, interest and aptitude in the study of Psychiatry and Psychosomatic Medicine. This Scholarship was established by the Government of Ontario in memory of Dr. B. T. McGhie, Deputy Minister of Health and Hospitals, who during his lifetime made such an outstanding contribution in the fields of Psychiatry, Public Health and Hospital Administration.

THE HELEN E. DWYER MEMORIAL SCHOLARSHIP

A scholarship of \$50 presented by Dr. James G. Dwyer of New York, awarded to the student making the highest number of marks in the courses in Embryology and Histology of the second year.

THE BOAK PRIZE

The Boak Prize in Anatomy, value \$25, donated by Dr. Eric W. Boak, of Victoria, B.C., awarded to the student making the highest number of marks in the written and oral examinations in Anatomy of the third year.

THE JOHN FRANKLIN KIDD ESSAY PRIZES

The John Franklin Kidd Essay Prizes, the gift of Mrs. Kidd of Ottawa, one of \$100 and one of \$50, available to members of the fourth, fifth and sixth years for the best essays on a surgical topic.

Essays for these prizes should be submitted not later than March 15.

CANADIAN NATIONAL COMMITTEE FOR MENTAL HYGIENE PRIZE

A prize of \$50 awarded by the Canadian National Committee for Mental Hygiene to the student making the highest marks in Psychiatry.

RICHARDSON FELLOW IN PATHOLOGY—GENERAL HOSPITAL

On the foundation of this Fellowship in 1927, Alice F. Richardson undertook to maintain the annual salary of a clinical Pathologist to

the Hospital for a period of five years. Mrs. Richardson died in 1931, but has made provision for the maintenance of the Fellowship. Appointment is open to graduates, preference being given to those who have previously served as Internes or taken special training in Pathology.

Salary, \$50 per month, with rooms and board in Hospital. Appointments may be held for one or more years at the discretion of the Committee. The appointee will have the status of a senior interne in Hospital, and outlining of duties will be under control of a Committee consisting of the Professors of Medicine, Surgery and Pathology.

EXHIBITION OF 1851—SCIENCE RESEARCH SCHOLARSHIP

This scholarship of the annual value of £350 stg., is awarded by Her Majesty's Commissioners for the Exhibition of 1851 to students who have given evidence of capacity for original research, and are under 26 years of age. A given number of scholarships are awarded annually to students in Canada, recommended by the universities approved by the Commissioners.

The nominee must be a British subject, must have been a *bona fide* student of science for three years, must have been a student of the University for a full year immediately before his nomination, must be a student of the University at the time of his nomination, and must pledge himself not to hold any position of emolument whilst holding the scholarship without special permission from the Commissioners. He is recommended to the Commissioners by the Senate of the University. The scholarship will be tenable ordinarily for two years, and in cases of exceptional merit, for three years. The scholar will in the absence of special circumstances be required to proceed to a country other than that in which he received his scientific training and there pursue some investigation likely to promote technical industries or scientific culture. The particular investigation the student proposes to pursue must be stated before a scholarship can be awarded.

THE GEORGE CHRISTIAN HOFFMAN FELLOWSHIPS

The Alpha Fellowship for Pathological Research of \$800 and the Beta Fellowship for extended studies in Surgery of \$600 awarded to recent graduates nominated by the Faculty and approved by the Senate of the University. The awards will be determined by the undergraduate record of the candidates and upon evidence of capacity for original research. Applications for these Fellowships should be made to the Secretary of the Faculty not later than the first of March in each year.

The applicant must give detailed information regarding his ex-

perience since graduation and indicate definitely the work which he plans to do while holding the Fellowship and the institutions in which this work will be carried out.

The holders of the Fellowships shall proceed to some Institution or University in Europe or the United States of America, approved by the Senate of the University, where post-graduate study and research may most advantageously be pursued. The Fellowships may be tenable for a second or even a third year, upon the recommendation of the Faculty.

The George Christian Hoffman Fellowships have been awarded as follows:

- In Pathology:—1937, John Clinton White, M.D., C.M. (1930).
1938, Leslie Sparling Jolliffe, M.D., C.M. (1936).
1939, Edward Douglas Rooke, M.D., C.M. (1937).
1940, James Stuart Young, B.A., M.D., C.M. (1938).
- In Surgery:—1937, Robert Randolph Mutrie, M.D., C.M. (1934).
1938, Edwin Perry White, M.D., C.M. (1934).
1939, Thomas Neil Tweddell, M.D., C.M. (1936).
1940, Osler Briggs Dickinson, M.D., C.M. (1935).
1947, William James Spencer Melvin, B.A., M.D., C.M. (1943).
1948, Clayton L. Nelson Robinson, M.D., C.M. (1943).
1949, Howard Douglas Steele, M.D., C.M. (1944).

The list of awards in earlier years will be found in the 1941-42 Calendar.

WILLIAM SPANKIE MEMORIAL MEDICAL RESEARCH ENDOWMENT FUND

The late Dr. William Spankie provided in his Will for a fund "to promote Medical Research at Queen's University under rules and regulations to be determined by the Board of Trustees and approved by the Executors and Trustees of the Estate."

The present income is \$400 a year.

The research must be carried on at Queen's University or in one of the City Hospitals associated with it.

Reports upon research problems assisted by the fund must be submitted to the Committee of Administration.

All applications for grants should be addressed to the Principal.

REQUIREMENTS FOR LICENCE

Kingston is a centre for the Examinations of the Medical Council of Canada. The written examinations are held in one of the University buildings, and the clinical examinations in the General Hospital.

DOMINION OF CANADA

A University Degree does not give the right to practise the profession of Medicine. It is also necessary to conform with the laws pertaining to the practice of Medicine in the province, state or country in which it is proposed to begin practice. The Medical Council of Canada issues a diploma which is accepted for registration in any province of the Dominion.

In order to qualify for the examination of the Medical Council of Canada, the candidate must hold the licence of a Provincial Board, or present a certificate from the Registrar of a Provincial Medical Council that he holds a medical degree from an approved Medical College. The announcement of the Medical Council of Canada may be obtained from Dr. J. Fenton Argue, Registrar, 180 Metcalfe Street, Ottawa.

Each province in Canada has a special standard of medical education and special requirements for licence. Detailed information as to qualifications for the practice of Medicine in the various provinces may be obtained from the Provincial Registrars, as follows:

Alberta: DR. W. BRAMLEY-MOORE, 207 Alexandra Block, Edmonton.

British Columbia: DR. A. J. MACLACHLAN, 203 Medical Dental Building, Vancouver.

Manitoba: DR. M. T. MACFARLAND, 604 Medical Arts Building, Winnipeg.

New Brunswick: DR. JOHN M. BARRY, 182 Princess Street, Saint John, N.B.

Newfoundland: DR. C. MACPHERSON, P.O. Box 5121, St. John's.

Nova Scotia: DR. H. L. SCAMMELL, Provincial Medical Board of Nova Scotia, 196 Atlantic Street, Halifax.

Ontario: DR. ROBERT T. NOBLE, 174 St. George St., Toronto.

Prince Edward Island: DR. I. J. YEO, 193 Prince St., Charlottetown.

Saskatchewan: DR. G. GORDON FERGUSON, 415 Birks Building, Saskatoon.

Quebec: DR. JEAN PAQUIN, Le Collège des Médecins et Chirurgiens de la Province de Québec, 1896 Dorchester Street, Montreal.

GREAT BRITAIN AND IRELAND

The General Council of Medical Education and Registration has general supervision over the various licensing and examining Boards and keeps the Medical Register. The main licensing and examining bodies recognized in Great Britain apart from the universities are as follows:

In England:—The Conjoint Board of the Royal College of Surgeons of England and Royal College of Physicians of London, and the Society of Apothecaries, London. Information can be obtained from the Secretary of the English Conjoint Board, 8-11, Queen Square, Bloomsbury, London, W.C. 1, and the clerk of the Society of Apothecaries, Water Lane, Blackfriars, E.C. 4.

In Ireland:—The Conjoint Board of the Royal Colleges of Physicians and Surgeons of Ireland, and the Apothecaries' Hall of Ireland. Information can be obtained from the Secretary of the Irish Conjoint Board, Royal College of Surgeons, Dublin, and the Registrar, Apothecaries' Hall of Ireland, 93, Merrion Square, Dublin.

In Scotland:—The Conjoint Board of the Royal Faculty of Physicians and Surgeons of Edinburgh and the Royal Faculty of Physicians and Surgeons of Glasgow. Information can be obtained from the Secretary of the Scottish Conjoint Board, 49, Lauriston Place, Edinburgh.

Certificates of Queen's University Medical Faculty are accepted by these Boards for admission to their examinations, so that those possessing the degree of M.D. from Queen's University are entitled to all the privileges in Great Britain that are accorded to students and graduates of other Colleges and Universities within the Empire.

UNITED STATES

The Journal of the American Medical Association publishes an Abstract of the Laws regulating the Practice of Medicine in the various States and Territories of the United States. The price of the pamphlet is 50c., and it may be obtained by addressing the American Medical Association, 535 North Dearborn Street, Chicago, Ill.

The Medical School is listed as Class A by the Council on Medical Education and Hospitals of the American Medical Association.

COURSES OF INSTRUCTION

ANATOMY

Professor—D. C. MATHESON, M.B.

Associate Professor of Embryology—BENJAMIN KROPP, A.M.,
Ph.D.

Assistant Professor—M. W. M. SLOANE, M.D., C.M., M.S.

Fellows—W. A. BAKER, M.D., C.M.

P. P. CHALYKOFF, M.D., C.M.

A

DESCRIPTIVE AND PRACTICAL ANATOMY

SECOND YEAR

The work of the Second Year includes (a) the dissection of the upper extremity, the head and neck and the thorax. The bones of each region are studied in connection with each part dissected. Lectures and demonstrations are co-ordinated with the work in the dissecting room. (b) In addition, a course of lectures is given on the anatomy of the body as a whole. This includes the definition of anatomical terms, a survey of the body systems and such special features as the structure and ossification of bones, classification of joints, the action of muscles, etc.

THIRD YEAR

(a) The remainder of the body is dissected, including the lower extremity, the abdomen and the pelvis: skeletal structures are studied in connection with the soft parts.

(b) A review of the regions dissected during the Second Year is required and some questions on the final examinations will be asked on this part of the work.

(c) *Neuro-anatomy*:—A lecture and laboratory course on the anatomy of the nervous system, designed to fulfil the needs of the undergraduate student. The various nuclei and tracts with their connections are considered, with emphasis on their functional and clinical importance.

Students must dissect the whole of the human body during the course. Preliminary and final oral or practical examinations are required from

each student on each part dissected. Besides these, term written examinations are held in December, and final written examinations at the close of the spring term. Students must complete the dissection and take all oral examinations before being allowed to proceed with the final written examinations.

Bones of the head, trunk and upper extremity are loaned to second year students and bones of the lower extremity to third year students.

Encouragement is given to students of the 4th, 5th and 6th years who wish to do review work in the dissecting room.

APPROVED TEXT-BOOKS AND BOOKS OF REFERENCE

Cunningham, Gray, Morris, *Buchanan's Manual of Anatomy*. Frazer and Robbins: *Manual of Practical Anatomy*. Cunningham: *Manual of Practical Anatomy*. Le Gros Clark: *Practical Anatomy*. Jamieson: *Companion to Anatomy*. Johnston: *Synopsis of Regional Anatomy*. Grant: *A Method of Anatomy*. Mainland: *Anatomy as a basis for medical and dental practice*. Frazer: *The Anatomy of the Human Skeleton*. Sobotta-McMurrich: *Atlas of Human Anatomy*. Spalholz: *Hand Atlas of Human Anatomy*. Toldt: *An Atlas of Human Anatomy*. Jamieson: *Illustrations of Regional Anatomy*. Grant: *An Atlas of Anatomy*. Frazer: *Manual of Embryology*. Callander: *Surgical Anatomy*. Ranson: *Anatomy of the Nervous System*. Barr: *The Structure of the Brain and Spinal Cord in Man*, Parts 1 and 2. Strong & Elwyn: *Human Neuroanatomy*. Elliott: *Text-book of the Nervous System*. Livingston: *The Clinical Aspects of Visceral Neurology*.

B

EMBRYOLOGY. The course consists of a study of fertilization, cleavage, and organogeny, especially of the mammal, with illustrative material drawn from the chick and pig. Source articles in journals, and monographs, are used for collateral reading. Two lecture periods and three hours laboratory work each week throughout the second term of the second year.

Text: Patten: *Human Embryology*.

References: Keibel and Mall: *Embryology*. Patten: *Embryology of the Chick*. Patten: *Embryology of the Pig*. Carnegie Institution of Washington: *Contributions to Embryology*. Arey: *Developmental Anatomy*. Jordan and Kindred: *Textbook of Embryology*. Hamilton, Boyd and Mossman: *Human Embryology*.

C

MEDICAL AND SURGICAL ANATOMY

Associate Professor—S. W. HOUSTON, M.D., C.M., F.R.C.S. (Edin.), F.R.C.S.(C).

The students are taught to make practical use of the facts of anatomy, and the application of these to medical and surgical practice is shown. Attention is directed to the manner in which the anatomy affects the course and progress of disease, and to the alteration in the anatomical relations in disease. Special attention is given to displacements in fractures and dislocations, topographical anatomy, and ligation of arteries.

APPROVED TEXT-BOOKS

Manual of Surgical Anatomy: Beesley & Johnston, revised by Bruce Walmsley.

Fractures: Magnusson-Watson Jones. *Manual of Surgical Anatomy*: Jones and Shepard. *Atlas of Surgical Approaches*: Nicola. *Extensile Approaches*: Henry. *The Hand*: Bunnell.

BACTERIOLOGY

Professor—G. B. REED, O.B.E., M.A., B.Sc., PhD., F.R.S.C.

Professor—JOHN H. ORR, M.D., C.M., F.R.C.P.(C).

THIRD YEAR

1. *General and Pathogenic Bacteriology*. This course covers the general principles of bacteriology. The lectures deal with the structure and physiology of bacteria, the theories of infection and immunity and a systematic study of the pathogenic bacteria. Laboratory practice includes the preparation of culture media and the biochemical, cultural and microscopic study of bacteria. The principal pathogenic bacteria are isolated from hospital material. Infection and immunity are studied experimentally in animals and serological reactions carried out on human material. This will be supplemented by a detailed bacteriological study of selected cases, with laboratory work, prescribed reading and reports.

Text-books: Jordan and Burrows. Zinsser and Bayne-Jones, *Text-Book of Bacteriology*; Topley and Wilson, *Principles of Bacteriology*.

ELECTIVE COURSES

1. *Immunology and Physiology of the Bacteria*. Lectures, reading and laboratory practice.

2. *Research.* Properly qualified students who wish to make a special study of Bacteriology are admitted to the laboratory to undertake special problems. This work may be carried out during the session or in the summer, or both.

3. Studies leading to the degree M.Sc.(Med.). The department offers facilities and supervision for graduates who desire to take this degree in Bacteriology.

BIOLOGY

Assistant Professor—H. M. GOOD, B.A., Ph.D.

Demonstrators—W. FRED HAMPTON.

HARRY J. PAYNE.

FIRST YEAR

1. *General Biology.*—A course of three lectures and six hours of laboratory work per week throughout the session—botany in the first term and zoology in the second.

A general survey of the plant and animal kingdoms with laboratory work on representatives of the main groups. During the fall, field trips to local points of biological interest. A study of parasitology with special attention to those forms which occur in Canada. Comparison of various types of animals with emphasis upon mammalian anatomy. Principles of embryology, physiology, evolution and genetics.

Text-books: Holman and Robbins, *Textbook of General Botany* (John Wiley and Sons, fourth edition). Storer, *General Zoology* (McGraw-Hill).

BIOCHEMISTRY

Professor—R. GORDON SINCLAIR, B.A., Ph.D., F.R.S.C.

Associate Professor—J. F. LOGAN, M.A., Ph.D.

Assistant Professor—R. A. MACLEOD, M.A., Ph.D.

THIRD YEAR

This course is designed to bring out the general chemical principles underlying such processes as respiration, acid-base balance, water exchange, absorption and excretion and as well to cover in a fairly comprehensive manner the composition and function of the constituents of living things and of the foods which they require. Particular attention is paid to the biochemistry of the human organism. The relationship

to clinical medicine is brought out by the discussion of the chemical basis of certain diseases.

Text-books: Hawk, Orser and Summerson, *Practical Physiological Chemistry*; Harrow, *Textbook of Biochemistry*; Kleiner, *Human Biochemistry*; Mitchell, *A Textbook in Biochemistry*.

Reference Books: Cameron and Gilmour, *The Biochemistry of Medicine*; Bodansky and Bodansky, *Biochemistry of Disease*.

CHEMISTRY

Professor—J. A. McRAE, M.A., Ph.D., F.R.I.C., F.R.S.C.

Associate Professor of Biochemistry—J. F. LOGAN, M.A., Ph.D.

Associate Professor of Chemistry—W. M. SMITH, B.Sc., Ph.D.

The lecture and laboratory classes in General and Organic Chemistry are conducted in Gordon Hall.

Examinations are held at intervals during the session and the standing of the student is determined by the results of these examinations and by the character of his laboratory work, as well as by the grade obtained at the annual examination.

No student is admitted to the annual examination who has failed to attain a satisfactory standard in the laboratory exercises.

A laboratory deposit is required to cover the cost of breakages of apparatus and damage to laboratory property and must be paid to the Treasurer of the University before a locker will be assigned.

FIRST YEAR

General Chemistry and Analysis.

(a) A course of three lectures per week on the fundamental laws and theories of these two subjects. This course includes a description of the common elements and compounds and a discussion of elementary qualitative analysis. The lectures are illustrated by demonstrations and laboratory exercises.

(b) A course of five hours per week of laboratory exercises. These exercises provide training in laboratory technique and include elementary qualitative and volumetric analysis.

Text-books:—Amsden: *Physical Chemistry for Premedical Students*. Hartsuch: *Elementary Qualitative Analysis*. Dorrance: *Experiments and Problems in General Chemistry*.

Professor Smith.

SECOND YEAR

Organic Chemistry.

Two lectures, and one laboratory period of three hours per week are given so that the student will be well grounded in the fundamentals of Organic Chemistry, essential to the proper understanding of Biochemistry and its related sciences. Typical aliphatic and aromatic compounds are prepared, and their properties and reactions discussed.

Text-books:—Wertheim: *Textbook of Organic Chemistry*. Wertheim: *Organic Chemistry, Laboratory Guide*.

Professor Logan.

ENGLISH

Professor—J. A. ROY, M.A.(Edin.).

The Department of English provides a course (English M) which must be taken by all first year Medical students. During the session the following will be studied: Chaucer, *The Doctor of Physick* and one other character; Shakespeare's *I Henry IV* and several sonnets and lyrics; Pepys, passages from his *Diary* dealing with the Plague; extracts from Defoe's *A Journal of the Plague Year*; Sir Thomas Browne, *Religio Medici* (excerpts) and Robert Burton's *Anatomy of Melancholy* (excerpts); a Restoration Comedy; Milton, *Lycidas*, a sonnet and *Areopagitica*; Goldsmith, *Citizen of the World*; Shaw, *The Doctor's Dilemma*; Strachey's *Florence Nightingale*. Readings from the poetry of Browning, Tennyson and Kipling; modern poetry, the short story and a novel will also be studied.

Every student must possess a copy of Foerster and Steadman, *Writing and Thinking*, and should also have *The Concise Oxford Dictionary*.

During the session one hour a week is devoted to the practice and technique of public speaking. Every student must take part during the term. He is allowed to select his own subject, and at the close of the hour the lecturer offers friendly and constructive criticism of his effort.

EYE, EAR, NOSE AND THROAT

Professor—F. A. CAYS, M.D.,C.M., F.R.C.S.(C).

Lecturer—F. X. O'CONNOR, M.D.,C.M.

Clinical Assistants—G. B. MACPHERSON, M.D.,C.M.

J. G. MCBROOM, M.D.,C.M.

The course of instruction is carried on in the Kingston General Hospital. There is both an In-door and Out-door service. A large Clinic room, in which there are three cubicles, is used for clinics and for teaching the examination of patients.

This course is carried on during both fifth and sixth years.

Most of the work is clinical and in addition to this, a series of lectures is delivered upon the various diseases of the Eye, Ear, Nose and Throat.

Text-books:—May, Parsons, Gifford, Logan Turner, Morrison, Wolfe.

Reference Books:—Duke Elder, Brown, Fuchs, Ball, de Schweinitz, Jackson and Jackson, Berens, Kopetzky, Jackson, Imperatori, Portman, St. Clair Thompson, Walsh.

MEDICAL JURISPRUDENCE

Lecturer—P. M. MACDONNELL, M.A., M.D., C.M.

Lecturer—T. J. RIGNEY, B.A., K.C.

FOURTH YEAR

The course in Jurisprudence includes the following: legal criminal procedure; Coroner's court; medical evidence, identity; modes of dying; sudden death, signs of death; homicide, suicide; wounds, burns and scalds; suffocation, hanging and strangling; drowning, death from starvation, cold and heat, lightning and electricity; marriage and divorce; offences against chastity; pregnancy and delivery; criminal abortion; infanticide, causes of death to the foetus; legitimacy, impotence, sterility; malingering and feigned diseases; survivorship, life assurance, wills, malpractice; Workmen's Compensation Act.

A short course deals with Toxicology or the science of poisons embracing the detection and treatment of criminal and accidental cases.

BOOKS OF REFERENCE

Taylor; Hamilton; Peterson, Haines and Webster; Buchanan; Sidney Smith; Glaister.

MEDICINE AND CLINICAL MEDICINE

Professor Emeritus—W. T. CONNELL, M.D., C.M., F.R.C.P.(C).

Professor—W. FORD CONNELL, M.D., C.M., M.R.C.P.(Lond.), F.R.C.P.(C), F.A.C.P.

Associate Professor of Medicine—G. MALCOLM BROWN, M.D., C.M., D.Phil. (Oxon.), M.R.C.P.(Lond.), F.R.C.P.(C).

Assistant Professors—BRUCE H. HOPKINS, M.B.

C. H. MCCUAIG, M.D., C.M.

DENIS N. WHITE, M.A., M.B., M.R.C.P.(Lond.).

Lecturers—C. W. E. DANBY, M.D.,C.M.
F. D. O'CONNOR, M.D.,C.M.
S. S. ROBINSON, M.D.,C.M.
J. T. TWEDDELL, M.D.,C.M.

Clinical Assistants—H. G. BIRD, M.B. (Tor.), M.R.C.P. (Lond.),
F.R.C.P. (C).
J. E. GIBSON, M.D.,C.M.
GORDON LUGSDIN, B.A. (Tor.), M.D. (Tor.),
D. Psych, (Tor.).
GEORGE MCCrackEN, L.R.C.P., L.R.C.S. (Edin.),
F.R.F.P.S. (Glas.).
G. D. SCOTT, M.D.,C.M.

Clinical Tutor—H. H. FIREMAN, M.D.

Research Fellow—ERNEST POSER, B.A.

FOURTH YEAR

The instruction in this year covers the infectious diseases, diseases of the blood and lymph nodes, and the principles and methods of physical diagnosis. An introduction to the study of diseases of the heart and lungs is also provided.

FIFTH YEAR

During the fifth year the field of general medicine is covered in a course of lectures and clinical demonstrations.

SIXTH YEAR

Students in their sixth year are taught in small groups on the wards, and in a series of clinical conferences. Particular attention is given to differential diagnosis and therapeutics.

TEXT-BOOKS

Clinical Methods:

Hutchison and Hunter, *Clinical Methods*. Major, *Physical Diagnosis*.

General Medicine:

Cecil, *Textbook of Medicine*.

Neurology:

Walshe, *Diseases of the Nervous System*.

Chest Diseases:

Coope, *Diseases of the Chest*.

Dermatology:

Manual of Dermatology (Military Manual, N.R.C.)

Therapeutics:

Beckman, *Treatment in General Practice*. Dunlop, Davidson and McNee, *Text Book of Medical Treatment*.

BOOKS OF REFERENCE

Cabot and Adams, *Physical Diagnosis*. Meakins, Christian or Price: *Textbook of Medicine*. Yater, *Fundamentals of Internal Medicine*. Wintrobe, *Clinical Haematology*. Brain, *Diseases of the Nervous System*. Wilson, *Neurology*. Andrews, *Diseases of the Skin*. McKenna, *Skin Diseases*. Seman and Moritz, *An Atlas of the Commoner Skin Diseases*. Stokes, *Syphilis*. Moore, *Modern Treatment of Syphilis*. Top, *Communicable Diseases*. Harries and Mitman, *Clinical Practice in Infectious Diseases*. Norris and Landis, *Diseases of the Chest*. Davidson, *Practical Manual of Diseases of the Chest*. Lewis, *Diseases of the Heart*.... White, *Heart Disease*. Levine, *Clinical Heart Disease*.... Scherf and Boyd, *Cardiovascular Diseases*. Lewis, *Peripheral Vascular Diseases*. Allen, Barker and Hines, *Peripheral Vascular Diseases*. Scherf and Boyd, *Clinical Electrocardiography*. Graybiel and White, *Clinical Electrocardiography*. Masters, *The Electrocardiogram and X-Ray Configuration of the Heart*. Bockus, *Gastro-enterology*. Joslin, *Treatment of Diabetes Mellitus*. Duncan, *Diseases of Metabolism*. Selye, *Textbook of Endocrinology*. Grollman, *Essentials of Endocrinology*. McLester, *Nutrition and Diet in Health and Disease*. Weiss and English, *Psychosomatic Medicine*.

OBSTETRICS AND GYNAECOLOGY

Professor—EDWIN M. ROBERTSON, M.B., Ch.B., F.R.C.O.G., F.R.C.S. (Edin.), F.R.C.S. (C).

Associate Professor—PRESLEY A. MCLEOD, B.A., M.D., C.M., F.R.C.O.G., F.R.C.S. (C).

Assistant Professor—FERGUS J. O'CONNOR, M.D., C.M. (Division of Obstetrics)

Assistant Professor—GORDON W. MYLKS, B.A., M.D., C.M., F.A.C.S.

FIFTH YEAR

A course of lectures is given in three subjects:

(a) normal and abnormal obstetrics; (b) gynaecology; (c) normal functions and diseases of the endocrine glands special to gynaecology.

Tutorial classes and manikin drill are held for sections of the class.

SIXTH YEAR

Instruction during the sixth year is mainly clinical, clinics and practical instruction being given in the obstetrical and gynaecological wards.

Small sections of the class, in rotation, attend prenatal clinics.

A course of discussions on recent advances and on subjects of major importance receiving special attention in current literature is given weekly.

Revision classes are held in gynaecological and obstetrical pathology. Each student receives a set of tissue sections which he must examine, sketch and annotate.

Manikin drill is also given.

PRACTICAL TEACHING AIDS

In the practical classroom display cabinets exhibit natural-colour wax casts of normal organs and tumours and diseased organs common in gynaecological and obstetrical practice. Also, full-scale models allow visualization of intra-vaginal and intra-pelvic lesions: trans-illuminated photomicrographs and explanatory descriptions are set up side by side with the models. Instruments and drugs special to the practice of obstetrics and gynaecology are also on display. In the field of Endocrinology life-like figurines illustrate common endocrinopathies, monsters, dwarfs and conditions of abnormal obesity.

The practical classroom is always open and obstetrical manikins and instruments are available for the study of mechanisms of labour, the practice of delivery, fitting pessaries, etc.

RECOMMENDED TEXT-BOOKS

Obstetrics: De Lee-Greenhill, Scott & Van Wyck.

Gynaecology: Curtis, Novak.

Obstetrics and Gynaecology: 1948 year book of Obstetrics and Gynaecology.

Pathology: Novak.

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Journals: *Amer. Jour. Obst. and Gyn.*; *Obstetrical and Gynecological Survey*.

Nursing: Zabriskie.

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Lay Reading: (also useful for students and practioners)—The Canadian Mother and Child, (Dept. of Pensions and National

Health); Getting Ready to be a Mother, (Corbin); Getting Ready to be a Father, (Corbin); Facts for Childless Couples, (Hamblen); Successful Marriage, (Fishbein and Burgess).

PATHOLOGY

Professor—JOHN D. HAMILTON, M.D.

Associate Professor—W. D. HAY, M.A., M.D., C.M.

Assistant Professor—CHESTER R. MCLEAN, M.D., C.M., M.Sc.

(Leave of absence 1949-50).

Assistant Curators of Museum—J. T. TWEDDELL, M.D., C.M.,

T. N. TWEDDELL, M.D., C.M.

Fellows in Pathology—F. F. HOWATT, B.A., M.D., C.M. M.Sc. (Med.).

DORIS S. NUNES, M.D., C.M., M.Sc.

Research Assistant—R. C. ROSS, M.D.

FOURTH YEAR

General Pathology

For the first three months of the fourth year, students attend a lecture course devoted to the aetiology and pathogenesis of disease, and disturbances common to the various tissues of the body. These are illustrated by gross demonstrations and laboratory sessions devoted to the study of microscopic sections.

Time—108 hours.

Professor Hamilton.

Special Pathology

The last four months of the fourth year, students attend a series of lecture courses on Special Pathology, and attend gross demonstrations, laboratory sessions devoted to the study of microscopic sections, autopsy case conferences, and clinical pathological conferences.

Time—180 hours.

Professors Hamilton,
Doctors Howatt, Nunes, Ross.

Books: Boyd, Bell, or Karsner.

References: Moore, MacCallum, Forbus.

FIFTH AND SIXTH YEARS

Clinical Pathological Conferences

These include conferences on medical and surgical cases in their clinical, pathological and bacteriological aspects, and are held each Sat-

urday morning throughout the session with the Departments of Medicine and Surgery. Students of the fourth, fifth and sixth years are expected to attend.

Time—30 hours.

Surgical Pathology

Demonstrations of gross surgical specimens are given to students of the sixth year.

Time—30 hours.

Drs. Howatt and Nunes

Autopsies

Students are required to attend autopsies and must have attended 15 complete autopsies prior to graduation.

PEDIATRICS

Professor of Pediatrics—R. R. MACGREGOR, M.D., F.R.C.P.(C).

Lecturer—J. S. DELAHAYE, M.D., C.M.

This course is taken in the fifth and sixth years, and is chiefly a clinical one. Instruction is given in the general care, management and feeding of infants and young children; the clinical investigation of diseases of infants and young children with management and treatment; injuries and diseases of the newly born; derangements of nutrition; and practical demonstrations in the preparation of infant foods.

A limited number of students is allowed to visit twice weekly the well baby clinic of the Victorian Order of Nurses, where instruction is given in the care and feeding of well infants and in immunization against certain diseases.

Text-books: Holt and McIntosh, Mitchell, Neilson.

BOOKS OF REFERENCE

Marriott, Abt, Hutchison, Porter and Carter, Patterson and Moncrieff, Kuglemas, Brown and Tisdall.

PHARMACOLOGY

Professor—ELDON M. BOYD, M.A., M.D., C.M.

Associate Professor—DOUGLAS MCEWEN, M.A., Ph.D.

THIRD YEAR

The course in *Pharmacology* offered to students of the Third Year consists of two lecture hours per week throughout the session. The

lecture course consists of a discussion of the history, pharmaceutical chemistry, metabolism, pharmacological actions and therapeutic uses, toxicology and method of administration of pharmacopoeial and newer drugs affecting the central and peripheral nervous system. This course will not be given in the 1949-50 session and in future Pharmacology will be given entirely in the Fourth Year.

FOURTH YEAR

This course consists of three lecture and three laboratory hours per week throughout the session. The lecture course consists of a discussion of the remaining drugs. In the Pharmacological Laboratory, dispensing chemical tests and pharmacodynamic actions of drugs will be undertaken by each student. A survey of laboratory results is prepared by all students and presented to the entire class in the form of a ten-minute seminar.

BOOKS

General Pharmacology:—

Cushny, Dilling, Douhwaite, Gilman and Goodman, Sollman.

Experimental Pharmacology:—

Jackson, Sollman and Hanzlik.

Prescription Writing:—

Eggleston, B.P., U.S.P., Bethea.

SUMMER COURSES

Facilities are available to properly qualified students to investigate assigned problems of research during the summer months. Application for such appointments should be made not later than January of each year.

COURSES FOR THE DEGREE OF M.Sc.(Med.)

Candidates for the degree of M.Sc.(Med.) may select one or more courses in the department as part of their prescribed work. These courses consist of lectures, prescribed reading, seminars and experimental work.

PHYSICS

Professor—J. K. ROBERTSON, M.A., F.R.S.C.

Assistant Professor—D. T. ROBERTS, B.Sc., Ph.D.

FIRST YEAR

1. *Elementary Physics.*

(a) A course of three lectures per week throughout the year. The course includes lectures on Statics, Dynamics, Properties of Matter,

Heat, Sound and Light. Special emphasis is given to such subjects as Surface Tension, Osmotic Pressure, and some of the physical properties of Colloidal Solutions. Although the course is one on the fundamental laws of Physics, examples of the application of these laws to Medicine are introduced wherever it seems advisable to do so.

(b) Two hours per week in the laboratory.

Text-book: *Kimball's College Physics*, Peter Wold (Henry Holt and Co.).

SECOND YEAR

2. *Electricity and Magnetism, Conduction of Electricity through Gases, Roentgen Rays, Radioactivity and Nuclear Physics.*

(a) A course of two lectures per week in which a thorough elementary treatment of the above subjects is given. In the latter half of the course the lectures are designed to familiarize the student with modern X-ray equipment and its operation, with the physical nature of radiations of therapeutic value and with the medical aspects of nuclear physics.

(b) *Laboratory*—Two hours per week.

Text-book: *Kimball's College Physics*, Peter Wold (Henry Holt and Co.), or any good general physics; Robertson, *Radiology Physics*, 2nd edition.

PHYSIOLOGY

Professor—G. SPENCER MELVIN, M.D.

Professor—G. HAROLD ETINGER, M.B.E., B.A., M.D., C.M., F.R.S.C.

Assistant Professor—M. E. M. SAWYER, B.A., M.A., Ph.D.

SECOND YEAR

1. *Histology*. A detailed study is made of the principal tissues of the body by an examination of fresh preparations and mounted specimens. This is followed by a study of the structure of the organs of the body.

A collection of mounted slides is provided.

Text-books:—Jordan, *Text-book of Histology*; Maximow and Bloom, *Text-book of Histology*; Schafer, *Essentials of Histology*; Bailey, *Text-book*.

Books of Reference—Cowdry: *Special Cytology*. Quain's *Anatomy*: Vol. II, Pt. I—*Microscopic Anatomy*. Bolles Lee: *Microtomists Vade Mecum*. McClung: *Microscopical Technique*.

THIRD YEAR

2. *Experimental Physiology*. (a) A laboratory course is given in the dynamics of muscle and nerve, the nervous system, circulation, respiration, digestion, secretion, excretion, etc. (b) Students are arranged in small groups to carry out a number of survival experiments in the study of the endocrines. They are responsible for the operative work and are required to keep records and to undertake the necessary investigation during the progress of the experiment.

3. *Physiology*. The subject is treated systematically and the lecture course is supplemented by demonstrations and by the work in the experimental class. Special emphasis is laid on the application of Physiology to clinical study.

Text-books:—Bard, *McLeod's Physiology in Modern Medicine*; Best and Taylor, *Physiological Basis for the Practice of Medicine*.

Books of Reference: Bayliss: *Principles of General Physiology*. Newton: *Recent Advances in Physiology*. Schafer: *Text-book of Physiology*. Wiggers: *Physiology in Health and Disease*. Wright: *Applied Physiology*. Cameron: *Recent Advances in Endocrinology*. Schafer: *The Endocrine Glands*. Robson: *Recent Advances in Reproductive Physiology*. Cannon: *Mechanical Factors of Digestion*. Pavlov: *Work of the Digestive Glands*. Sherrington: *Integrative Action of the Nervous System*. Tilney and Riley: *The Form and Functions of the Central Nervous System*. Liddell and Sherrington: *Mammalian Physiology*. Markowitz: *Text-book of Experimental Surgery*. Allen, Danforth and Doisy: *Sex and Internal Secretions*.

OPTIONAL COURSES

4. (a) *Graduate studies leading to the Degree M.Sc.(Med.)*.

The department offers instruction and research supervision and facilities for graduates who desire to take this degree in Physiology.

(b) *Research in Physiology*.

Properly qualified students are admitted to the laboratory for post-graduate study and special research, even if not proceeding to a degree. This work may be done during the summer months, as well as during the teaching session.

PSYCHIATRY

Professor and Head of Department of Psychiatry—

C. H. MCCUAIG, M.D., C.M.

*Assistant Professor—*D. O'GORMAN LYNCH, M.D., C.M.

Clinical Assistants—R. M. BILLINGS, M.D.,C.M.
G. D. SCOTT, M.D.,C.M.
G. E. WILSON, M.D.

Instruction in Psychiatry is given in the third, fourth, fifth and sixth years.

The third year course is chiefly concerned with Psychopathology and Abnormal Psychology having an especial bearing upon the psychoses and psychoneuroses and the emotional relationships in general medicine. Demonstrations as to the abnormalities of the various psychological functions, constitutional reaction types, personality deviations and the commoner mental mechanisms are stressed.

The fourth year course consists of lectures and clinics covering the various forms of mental disorders. Abundant material is available both at the Ontario Hospital and the General Hospital. Special emphasis is given to the psychoneurotic disorders from the ward services in the General Hospital.

Instructions in fifth year, both at the General and Ontario Hospitals, includes lectures, clinics and special demonstrations of methods of investigation and treatment on the various forms of mental disease, particular emphasis in this year being on the major psychoses.

The final year course is entirely clinical and consists of small group teaching. The emphasis is chiefly on the psychosomatic disorders. The practical aspects of mental hygiene and study of various behaviour problems of children are observed at a special observation centre.

Text-books in Psychiatry:—

Henderson and Gillespie: *Text Book of Psychiatry*.
Strecker and Ebaugh: *Practical Clinical Psychiatry*.
Strecker: *Outline of Psychiatry*.
Weiss and English: *Psychosomatic Medicine*.
Noyes: *Practical Clinical Psychiatry*.

Text-books in Abnormal Psychology:—

Bridges: *Psychology, Normal and Abnormal*, 1930.
Fisher: *Introduction to Abnormal Psychology*, 1929.
McDougall: *Outline of Abnormal Psychology*, 1926.

PSYCHOLOGY

Instructor—J. A. EASTERBROOK, B.A.

SECOND YEAR

The course in Psychology for second year students consists of lectures and demonstrations dealing with fundamental problems of thought,

perception, and behavior during the first term, and with clinical manifestations of these problems in the second term. This course is in preparation for a later course in Psychopathology, given in the third year.

Texts:

Munn, *Psychology*, 1935.

Landis and Bolles, *Abandoned Psychology*, 1947.

PUBLIC HEALTH AND PREVENTIVE MEDICINE

The Arthur R. Elliott Professor—JOHN WYLLIE, M.A., M.D.,
B.Sc., D.P.H.

Lecturer—A. R. J. BOYD, B.A., M.D., D.P.H.

FIELD COURSE:

Outdoor visits to Public Health Schemes are arranged during the term September to December in the *4th Year*. The visits include inspection of Water Supply Schemes, Sewage Disposal Plants, Ventilating and Heating Systems in schools, colleges and factories, an Incinerator Plant, a model Dairy Farm, a Pasteurizing plant, Food establishments, a Storage-battery plant, a Tile factory, and a Printing Press.

The expenses incurred in the outdoor visits along with the cost of material supplied in class to each student, are deducted from the sessional deposit.

The work of the Public Health Nurse in the City Health Department, the duties of the Social Service Worker in the Children's Aid Society and the functions of the Department of Social Welfare in the Community are outlined by the chief Administrators of these departments. The services of the Victorian Order of Nurses in the Community are described in a lecture-demonstration by the nurse in charge of the local clinic.

During the term January to April arrangements are made for small groups of students to attend a Child Welfare clinic, a Tuberculosis clinic, and a Mental Health clinic.

LECTURE COURSE I:

Medical students in their *4th Year* of study attend a course of didactic lectures during the terms September to December, and January to April, dealing with the sanitary aspects of Public Health.

The following subjects are discussed and illustrated with lantern slides: housing, air and ventilation, heating and lighting, water and water supply, domestic and community sanitation, school hygiene, industrial hygiene, occupational diseases and medical parasitology.

Laboratory demonstrations include chemical and bacteriological analyses of water and milk, methods for the detection of poisons and preservatives in foods, and microscopical exhibits of parasites in meat and the chief insect vectors of disease.

LECTURE COURSE II:

Medical students in their *5th Year* of study attend a course of didactic lectures on Public Health administration, vital statistics and the preventive and epidemiological aspects of communicable diseases, during the terms September to December and January to April.

A series of lectures on War Hygiene is supplemented by visits to a Military camp, a Naval unit and an Aerodrome.

Medical Parasitology:

A series of weekly laboratory periods for medical students in the 5th Year is arranged throughout the session, during which mounted and stained preparations are supplied to each student for microscopical examination. The course embraces topics in medical entomology, protozoology and helminthology.

BOOKS OF REFERENCE

Currie: *Manual of Hygiene*. Rosenau: *Preventive Medicine and Hygiene*. Prescott and Horwood: *Sedgwick's Principles of Sanitary Science and Public Health*. Boyd: *Preventive Medicine*. Smellie: *Preventive Medicine and Public Health*.

RADIOLOGY AND PHYSICAL THERAPY

Professor — W. A. JONES, O.B.E., M.D., F.R.C.P.(C), F.F.R.

Associate Professor — R. C. BURR, M.D., C.M., F.R.C.S.(Edin.),
F.R.C.S.(C).

FOURTH YEAR

Eighteen hours, practical demonstration of x-ray films and lectures on diagnostic radiology.

Twelve hours, lectures and demonstrations on Physical Therapy.

FIFTH YEAR

Forty-four hours, lectures on diagnostic radiology and practical x-ray film reading.

Sixteen hour, lectures on radiotherapy and the radiological diagnosis of neoplasms.

SIXTH YEAR

A clinical-radiological conference once a week.

Each student serves as a shadow for one week in the department of diagnostic radiology and another week in the department of radiotherapy and the cancer clinic.

BOOKS OF REFERENCE

Robertson: *Radiology Physics*. Shanks, Kerley and Twining: *A Textbook of X-Ray Diagnosis*. Pancoast, Pendergrass, Schaffer: *Head and Neck in Roentgen Diagnosis*. Golden: *Diagnostic Roentgenology*. Kohler: *Roentgenology*. Watson Jones: *Fractures and Other Bone Injuries*. Comroe: *Arthritis*. MacKee: *X-Rays and Radium in the Treatment of Diseases of the Skin*. Canadian Medical Association: *Handbook on Cancer*. Cutler, Bushke: *Cancer, its Diagnosis and Treatment*. Pohle: *Clinical Roentgen Therapy*. Bierman: *Medical Application of a Short Wave Current*. Wolfe: *Textbook of Physiotherapy*. Krusen: *Physical Medicine*. Glasser, Quimby, Taylor and Weatherwax, *Physical Foundations of Radiology*. Caffey, *Pediatric X-ray Diagnosis*.

SURGERY

Professor—D. L. C. BINGHAM, M.B., Ch.B., F.R.C.S. (Edin.),
F.R.C.S.(C), F.A.C.S.

Associated Professor—S. W. HOUSTON, M.D.,C.M., F.R.C.S.
(Edin.), F.R.C.S.(C)

Associate Professor—D. W. BOUCHER, M.D.,C.M., F.R.C.S.
(Edin.), F.R.C.S.(C)

Lecturer—BASIL M. KOSTER, M.D.

Lecturer in Plastic Surgery—A. R. TILLEY, M.D.

Clinical Assistant—H. M. WARNER, M.D.,C.M., F.R.C.S.(C).

Clinical Assistant—T. N. TWEDDELL, M.D.,C.M., F.A.C.S.

Clinical Assistant—G. C. LINDSAY, M.D.,C.M.

Surgical Registrar—D. M. SCOTT, M.D.,C.M.

Clinical Tutor—J. B. JOHNSTON, M.B., Ch.B.

Lecturer in Anaesthesiology—W. A. CAMPBELL, M.D.,C.M.

Lecturer in Anaesthesiology—H. S. ANGROVE, M.D.,C.M.

Lecturer in Anaesthesiology—A. B. NOBLE, M.D., F.A.C.A.

Clinical Assistant in Anaesthesiology—A. D. MILLIGAN,
M.D.,C.M.

FOURTH YEAR

In the fourth year a course of systematic lectures on general surgery is given in which the principles and practice of surgery are discussed.

Clinics are held at the General Hospital and Hotel Dieu Hospital. During the year emphasis is placed upon physical diagnosis and the general approach to the patient.

FIFTH YEAR

In the fifth year the surgical specialties are introduced to the student and emphasis is placed upon bedside teaching. During the second term a practical class is held on bandaging, the application of plaster of Paris splints, the administration of intravenous fluids, and other minor surgical procedures.

SIXTH YEAR

The Sixth Year in Medicine will be largely devoted to clinical work. Half the year will be in Kingston and half the year at the Ottawa Civic Hospital. Each student will spend approximately sixteen weeks at each centre. During the year, as much emphasis as possible will be made upon the clinical examination and treatment of cases.

Anaesthesiology

A course of lectures is given in the fifth year, and practical demonstrations in the fifth and sixth years by Dr. Campbell and his staff.

Approved Text-books:

Christopher; Illingworth; Thomson, Miles, and Wilkie; Bailey and Love; Homans; Romanis and Mitchiner.

Fractures: Watson-Jones.

Orthopaedics: Mercer; McMurray.

Physical Diagnosis: *Physical signs in Clinical Surgery*, Hamilton Bailey.

Anaesthesiology: Minnit and Gillies, *Text Book of Anaesthetics*.

UROLOGY

Professor—N. E. BERRY, M.D., C.M.

Clinical Assistant—E. P. WHITE, M.D., C.M., F.R.C.S. (Edin.).

FIFTH YEAR

A course of lectures is given of one hour a week covering venereal diseases and general urology.

SIXTH YEAR

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The course consists of two hours per week and is devoted largely to clinical and operative urology. An attempt is made to familiarize the student with simple office procedures and the care of urological patients.

BOOKS OF REFERENCE

Eisendrath and Rolnick: *Urology*. *LeComte Manual of Urology*.
Nesbit: *Fundamentals of Urology*.

MEDALS, SCHOLARSHIPS AND PRIZES

FIFTH YEAR

Awarded May, 1948

The Reuben Wells Leonard Penultimate Year Scholarships of the value of \$300 and \$200. Awarded to the students obtaining highest and second highest standing respectively at the end of the penultimate year. The student must be in attendance in his final year.

1st. William Joseph Edmund Spence, Perth, Ontario.

2nd: John Howard Houck, Kingston, Ontario.

The W. W. Near and Susan Near Scholarship of \$50.00 to the student with the second highest standing in the fifth year.

Honour: John Howard Houck, Kingston, Ontario.

Award: George Clifford Clark, Kingston, Ontario.

The Victor Lyall Goodwill Memorial Scholarship of \$100.00 in Internal Medicine.

John Howard Houck, Kingston, Ontario.

The Isobel McConville Scholarship. Value \$100.00. Awarded to the student in the fifth year making the highest marks in Gynaecology.

Edward Armon Atack, Kingston, Ontario.

FOURTH YEAR

Awarded May, 1948

The W. W. Near and Susan Near Scholarships of \$80 awarded to the student making the highest standing in the examinations of the fourth year, and of \$40 to the student making the second highest standing.

1st: Robert Isaac Merritt, Smithville, Ontario.

2nd: Gerald Cameron Thomas, Ottawa, Ontario.

The George and Mary Louise Patton Scholarship. Value \$80. Awarded annually to the student in the fourth year who in the opinion of the professors concerned shows the greatest aptitude in the clinical work of the year.

John Stewart McIlraith McAuley, Ottawa, Ontario.

The Canadian National Committee for Mental Hygiene Prize. Value \$50. Awarded to the student making the highest marks in Psychiatry.

Robert Isaac Merritt, Smithville, Ontario.

Sylvanus Joy Scholarship. Value \$40. Awarded for proficiency in Materia Medica.

Honour: Robert Isaac Merritt, Smithville, Ontario.

Award: Donald Earl Bowes, Turtleford, Saskatchewan.

THIRD YEAR

Awarded May, 1948

The W. W. Near and Susan Near Scholarships of \$80 awarded to the student making the highest standing in the examinations of the third year, and of \$40 to the student making the second highest standing.

1st: Donald William Baxter, Colborne, Ontario.

2nd: Norman Alexander Hinton, Kingston, Ontario.

The Toronto Branch of the General Alumni Scholarship. Value \$100. Given by the Toronto Branch of the General Alumni Association for a period of five years. Awarded to the student of the third year with the highest standing in Physiology and Bacteriology.

John Kenneth Clayton, Duff, Saskatchewan.

The D. T. Smith Scholarship of \$20 for the highest marks in Pharmacology.

Donald William Baxter, Colborne, Ontario.

The Boak Scholarship of \$25 awarded to the student making the highest marks in the written and oral examinations in Anatomy of the third year.

Donald William Baxter, Colborne, Ontario.

SECOND YEAR

Awarded May, 1948

The W. W. Near and Susan Near Scholarships of \$80 awarded to the student making the highest standing in the examinations of the second year, and of \$40 to the student making the second highest standing.

1st: John Clifton Wyllie, Kingston, Ontario.

2nd: John Henry Hemming, Hamilton, Ontario.

The Helen E. Dwyer Memorial Scholarship of \$50 for the highest marks in Embryology and Histology of the second year.

John Clifton Wyllie, Kingston, Ontario.

The N. F. Dupuis Scholarship of \$50 awarded to the student making the highest marks in Biochemistry of the second year.

Harold Eugene Laycock, Walter's Falls, Ontario.

FIRST YEAR

Awarded May, 1948

The W. W. Near and Susan Near Scholarships of \$80 awarded to the student making the highest standing in the examinations of the first year, and of \$40 to the student making the second highest standing.

1st: Ernest Stanley Hagerman, Belleville, Ontario.

2nd: David Barsky, Regina, Saskatchewan.

The Robert Bruce Scholarship awarded to the student of Scottish Extraction making the highest number of marks on the regular examinations of the first year.

Patricia Anne Gardiner, Vancouver, British Columbia.

The Roberta McCulloch Scholarship in English awarded to the student standing first in Medical English.

Arthur Elwood Somerville, Forester's Falls, Ontario.

STUDENTS IN ATTENDANCE

SIXTH YEAR

September, 1948, to May, 1949

Glen John Ankenman	Gowanstown, Ont.
Edward Armon Atack	Kingston, Ont.
Ralph Delos Atyeo	Belleville, Ont.
William Bolton Beattie	Renfrew, Ont.
Franklin Berkman	Ottawa, Ont.
Thomas Murray Black	Regina, Sask.
James Delmar Blaine	Carleton Place, Ont.
David Alexander Boyes	Vancouver, B.C.
George Clifford Clark	Kingston, Ont.
John Blair Cockburn	Ottawa, Ont.
Stephen Burritt Collins	Ottawa, Ont.
Peter William Davey	Hamilton, Ont.
Frederick Rayson Downer	Vancouver, B.C.
John Gordon Erickson	Vancouver, B.C.
Patrick Joseph Farrell	Copper Cliff, Ont.
Arnold Goldstein	Prince Albert, Sask.
Harold Gordon Hamilton	Westport, Ont.
Richard Charles Horatio Hitchen, B.A.	Vancouver, B.C.
John Howard Houck, M.A.,	Brampton, Ont.
Martin Tiberiu Jeremias	Niagara Falls, Ont.
Grettir Valdmar Kristjanson	Geraldton, Ont.
Charles Gordon Loudon	Morrisburg, Ont.
Donald Angus McMillan	Thorold, Ont.
Gordon James Mack	Toronto, Ont.
Glenn Marvin Martin	Ottawa, Ont.
Helen Louise Martin, B.A.	Prince Albert, Sask.
Stanley Fred Morrill	Schreiber, Ont.
John Joseph Neville	Tamworth, Ont.
Donald Oakley	Vancouver, B.C.
John Stewart Packham	Caistor Centre, Ont.
Herbert Garfield Parkin	Norwood, Ont.
John Redmond Phillips, Phm.B.	Oakville, Ont.
Kenneth Graham Phin, B.A.	Whitby, Ont.
Arthur Edward Ross	Kingston, Ont.
Wilfred Arthur Roy	Timmins, Ont.
Norman Andrew Scott	Peterborough Ont.
Melville Howard Shaw	Vancouver, B.C.
Donald Thomas Smylie	New Liskeard, Ont.
William Joseph Edmund Spence	Perth, Ont.
George Hamilton Stone	Listowel, Ont.

John Edward Vincent, B.Sc. Montreal, Que.
 William Charles Wedlock, B.A. Peterborough, Ont.
 Ethel Ruth Whitfield, B.A. Belleville, Ont.

FIFTH YEAR

September, 1948, to May, 1949

Theodore Augustus Anderson Renfrew, Ont.
 Lyon Henry Appleby, B.A. Vancouver, B.C.
 Nancy Eileen Armbrust Fenwick, Ont.
 William Arthur Douglas Blair Perth, Ont.
 John Douglas Bonell Ottawa, Ont.
 Donald Earl Bowes Turtleford, Sask.
 Lewis Stafford De Summarey Carey..... Pender Harbour, B.C.
 Clifford John Carnahan Hamilton, Ont.
 Wallace Belton Carruthers, B.Sc. Florence, Ont.
 George Edward Cragg Vancouver, B.C.
 James Eric Curtis Windsor, Ont.
 Sydney Thomas Dallimore Kingston, Ont.
 Malcolm Hewlin Clark Dean Caledonia, Ont.
 Donald James Delahaye Kingston, Ont.
 James Ernest Devitt Ottawa, Ont.
 Edward Walker Dow, B.A. Kingston, Ont.
 John Francis Flood West Coxsackie, N.Y.
 George Frkovich Kapuskasing, Ont.
 James Eastwood Gibbons Smiths Falls, Ont.
 Percy Vaughan Gladly Sarnia, Ont.
 John Elmer Green Burgessville, Ont.
 Albert George Campbell Gulliford St. John's, Nfld.
 Eve Forrest Gulliford Port Coquitlam, B.C.
 Robert Deighton Wilson Guselle Arnprior, Ont.
 James Donald Hare Simcoe, Ont.
 John David Haynes Mactier, Ont.
 Mervyn Alexander Hopkinson Hamilton, Ont.
 William Oliver Jackson Simcoe, Ont.
 Ernest Arthur Jarman Vancouver, B.C.
 Gordon Albert Judge Burford, Ont.
 Edward Hamilton Newill Lambert, B.A..... Oakville, Ont.
 Samuel Francis Legris, B.A. Sudbury, Ont.
 John Stewart McIlraith McAuley Ottawa, Ont.
 Neil Bruce McCannel Regina, Sask.
 Gilbert Norman McIlveen Bowmanville, Ont.
 Angus Hugh MacMillan Regina, Sask.
 David Morris Marcus Belleville, Ont.

Mary Julia Mate	Fort Erie, Ont.
Robert Isaac Merritt	Smithville, Ont.
John Colvin Morgan	Fort William, Ont.
Walter Ivan Neilson, B.Sc.	Lennoxville, Que.
James Edward Nelles	Hamilton, Ont.
John Page	Owen Sound, Ont.
Vincent John Politi	Hamilton, Ont.
Edythe Evelyn Porter	Oxenden, Ont.
Joseph Elso Anthony Schincariol	Windsor, Ont.
James Ronald Scott	Penetanguishene, Ont.
Sydney Segal, B.Sc.	Montreal, Que.
Gerald Cameron Thomas	Ottawa, Ont.
Trevor James Guy Thompson	Hamilton, Ont.
Harold Foord Williamson	Belleville, Ont.
Thomas Inman Woodley	Belleville, Ont.

FOURTH YEAR

September, 1948, to May, 1949

George Granville Allen	Regina, Sask.
William Henry Barnes	Ottawa, Ont.
Beverly Jane Baxter	Hamilton, Ont.
Donald William Baxter	Colborne, Ont.
Donald Wesley Carnduff	Kenora, Ont.
John Kenneth Clayton	Duff, Sask.
James Maurice Cornell	Fort William, Ont.
Harold Wallace Cumming	Bashaw, Alta.
Malcolm Joseph Delaney	Prescott, Ont.
Robert Andrew Duncan	Kingston, Ont.
Harold Yale Fenwick	Hamilton, Ont.
John Ralph Gordon	Schreiber, Ont.
Raymond John Halliday	Kingston, Ont.
Robert William Vance Hanbidge	Humbolt, Sask.
John Nicholas Hartt	Trenton, Ont.
Albert Gordon Hewitson	Cornwall, Ont.
Norman Alexander Hinton	Kingston, Ont.
Norris Edmund Hunt	Ottawa, Ont.
Edwin Sylvester Janack	Iroquois, Ont.
Thomas Carman Johnson	White Rock, B.C.
Duane Willis Justus	Chesterville, Ont.
Harry Walker Keenan	Ottawa, Ont.
Stanley Richard Lang	Toronto, Ont.
Walton William Langford	Aldershot, Ont.
James Forest Lind	Keewatin, Ont.

Walter William Lomax	St. Catharines, Ont.
Cortlandt John Gordon Mackenzie	Toronto, Ont.
John Kenneth MacKenzie	Lucknow, Ont.
Ian Ross McLean	Toronto, Ont.
Lawrence Malloy	Kingsville, Ont.
Herbert Gordon Metcalfe, B.Sc.	Aylmer East, Que.
Alvin Ketcheson Miller	Belleville, Ont.
Bruce Evan Morgan	Hamilton, Ont.
Desmond Francis Morrow	Copper Cliff, Ont.
Harold Ormond Murphy	Saskatoon, Sask.
Arthur Leslie Perry	Canora, Sask.
Allan Seymour Porter	Kingston, Ont.
Kasmar Vincent Rudnick	Noranda, Que.
Andrew Constantine Sawchuk	Canora, Sask.
William Ruthman Simon	Brockville, Ont.
Milton Donald Snarch, B.A.	Montreal, Que.
Irving Soloway	Ottawa, Ont.
William Bradfield Stevens	Vancouver, B.C.
Cameron Colville Stewart	Hamilton, Ont.
Frank Joseph Stojan	Trenton, Ont.
William Taylor	Hamilton, Ont.
Merle Leigh Trewin	Ottawa, Ont.
Henry Abram Unruh, A.B.	Kingston, Ont.
Norman Ballantyne Urie	Ottawa, Ont.
Durrand Everett Wallar	Winnipeg, Man.
William Elmer Warwick	Vancouver, B.C.
Ormond Allison Weir, B.A.	Peterborough, Ont.
Donald Pearson Whittier	Ottawa, Ont.

THIRD YEAR

September, 1948, to May, 1949

Frank George Adderley	Toronto, Ont.
Wilfred Stuart Bailey	Toronto, Ont.
Gerald Sidney Base	Toronto, Ont.
Norman William Bradford	Corbyville, Ont.
Campbell Glen Cameron	Belleville, Ont.
Hugh Chisholm Campbell	Toronto, Ont.
James Wallace Charters	Hamilton, Ont.
Robert William Cornett	Hamilton, Ont.
Kenneth George Cox	Toronto, Ont.
Ross Henderson Craig	Ottawa, Ont.
James Higgs Jefferson Daniels	Belleville, Ont.
Robert Stevenson Dolman	Hamilton, Ont.

Ainslie Hamilton Dowd	Ottawa, Ont.
Benjamin Horace Dunn	Aylmer East, Que.
Emmett John Dunne	Ottawa, Ont.
Dawson Wray Einarson	Parry Sound, Ont.
Douglas William Geiger	Toronto, Ont.
Grahame Frewer Gower	Midland, Ont.
Sydney Lewis Handford	Arnprior, Ont.
John Henry Hemming	Hamilton, Ont.
Ernest Harold Holland	Rocanville, Sask.
Norman Stewart Jones	Toronto, Ont.
Eric Ronald Keirstead	Edmundston, N.B.
Harold Eugene Laycock	Walter's Falls, Ont.
Robert Henry Lee	St. John, N.B.
Alice Jean Lett	Snow Road, Ont.
Joseph Ernest Loree	Guelph, Ont.
Hugh Daniel Joseph McCoy	Ottawa, Ont.
Hugh Macdonald	Kingston, Ont.
Charles Grant MacKenzie, B.A.	Oakville, Ont.
Alexander Francis McKinnon	Sudbury, Ont.
Joseph Alexander MacLean	Greenfield, Ont.
Samuel Keith MacLean, B.Sc.	Sherbrooke, Que.
Monica Evelyn McMullen	Frankford, Ont.
David Emerson Moors	Kingston, Ont.
Leslie Louis Mould	Orillia, Ont.
John James Murie	Hamilton, Ont.
Frederick William Murphy	Kingston, Ont.
Margaret Lilian Peddie	New Westminster, B.C.
James Raphael Purvis	Mallorytown, Ont.
Leland Marlowe Read	Regina, Sask.
John Clifford Reid	Oro Station, Ont.
Gordon Waldron Robertson	Kingston, Ont.
Lorne Edward Ross	Hawkesbury, Ont.
Garnet Ralph Schamehorn	Kingston, Ont.
Howard Shibley Sexsmith	Kingston, Ont.
Robert Garfield Tate	Regina, Sask.
Louis Jean Maurice Tremblay	Ottawa, Ont.
Kenneth Paul Vassal	Niagara Falls, Ont.
Hubert Gerald Wagar, B.A.	Belleville, Ont.
Orville Badham Wilson	Ottawa, Ont.
John Clifton Wyllie	Kingston, Ont.
Donald Elliott Zarfaz	Orillia, Ont.

SECOND YEAR ..

September, 1948, to May, 1949

Victor Abramson	Ansonville, Ont.
Robert Winfred Allin	Port Perry, Ont.
David Barsky	Regina, Sask.
Charles William Baugh	Guelph, Ont.
Kenneth Hugh Berkeley	St. Catharines, Ont.
John Alexander Carmichael	Regina, Sask.
Yale Knox Carter	Ottawa, Ont.
Betty Cecilia Chinn	Victoria, B.C.
Emmett Terrence Cleary	Lunenburg, Ont.
Daniel Henry Connor	Washington, D.C
Helen Elizabeth Currie	Peterborough, Ont.
Douglas Alfred Denny	Toronto, Ont.
Philip John Doyle	Moose Creek, Ont.
Robert Graham Findlay, B.Sc.	Montreal Que.
Patricia Anne Gardiner	Vancouver, B.C.
William Thomas Gatfield	Windsor, Ont.
William Thomas Gaukrodger	Russell, Ont.
Kenneth Mackay Goodwin	Ste. Anne de Bellevue, Que.
John George Graham	Vancouver, B.C.
Joseph Andre Ernest Roland Gravel	Toronto, Ont.
Charles Ross Green	Belleville, Ont.
Howard Alan Guest	Stonewall, Man.
Ernest Stanley Hagerman	Belleville, Ont.
Joan Cicely Harrison	Kingston, Ont.
James Francis Harrison	Toronto, Ont.
Gordon Leath Henderson	Kingston, Ont.
Sidney John Soutar Horne	Orillia, Ont.
William Ramsay Johns	Hamilton, Ont.
William Thomas Kellington	Stouffville, Ont.
John William Kerr	Guelph, Ont.
Gordon Lorne Liberty	Ottawa, Ont.
Jane Elizabeth Logan	Toronto, Ont.
Alfred Howard Lower	Kingston, Ont.
William John McCafferty	Smooth Rock Falls, Ont.
Thomas Francis McCarthy	Kingston, Ont.
George Dean McEwen	Metcalfe, Ont.
James William Meakin	Richmond, Ont.
Eleanor Wilma Miller	Vancouver, B.C.
Norman Edward Miller	Sault Ste. Marie, Ont.
John Alexander Nickerson	Kenora, Ont.
John Charles Nixon	New Liskeard, Ont.

Lloyd Frank O'Neil	Windsor, Ont.
William George Peters	Cardinal, Ont.
John Andrew Ferris Playfair	Ottawa, Ont.
Joseph David Reid	Kingston, Ont.
Edward Patrick Ryan, A.B.	Larchmont, N.Y.
Philip Bernard John Rynard	Orillia, .Ont.
Bruce Guy Sadler	Oshawa, Ont.
Maurice Henry Schwartz, B.A.	Outremont, Que.
Edward Jacob Sheffman	St. John's, Nfld.
Leif Erik Simonson	Port Arthur, Ont.
John Owen Slingerland	Frankford, Ont.
John Calston Smith	Bracebridge, Ont.
Edward Roy Somerleigh	Chapleau, Ont.
Arthur Elwood Somerville	Forester's Falls, Ont.
Richard Alan Churchill Swan	Portsmouth, Ont.
Stanley Boyd Joseph Upper	Belleville, Ont.
Walter Govan Waddell	Ottawa, Ont.
Frederick Hugh Oldfield Warner	Marcy, N.Y.
Stanley Webb	Ottawa, Ont.
Joan Daphne Witney, B.Sc. N.	Saskatoon, Sask.
Donald Stewart Wood, B.Sc.	Assiniboia, Sask.

FIRST YEAR

September, 1948, to May, 1949

Kenneth MacMartin Adams	Iroquois Falls, Ont.
Kenneth George Joseph Appleby, B.A.	Vancouver, B.C.
Joseph Arthur Raymond Aubin, B.A.	Hearst, Ont.
James Alexander Baird, B.A.	Kamloops, B.C.
Margaret Ruth Bell	Kingston, Ont.
James Russell Birchard	— Ottawa, Ont.
Gordon Samuel Bird	Kincardine, Ont.
Gordon Harold Blair, B.A.	Vancouver, B.C.
Terence Kevin Brady	Toronto, Ont.
James William Burrows	Fort William, Ont.
Hugh Charles Cameron	Ottawa, Ont.
Charles Winfield Carpenter	Vancouver, B.C.
Donald McCoy Clark	Kingston, Ont.
Harlow Richard Dwight Connell, A.B.	Bluefield, West Va.
Robert Hamilton Cowen, B.A.	Hamilton, Ont.
Gerald Peter Cranston	Toronto, Ont.
Richard Edgar Donevan	Oshawa, Ont.
Robert Benjamin Dougan	Newburgh, Ont.
Frederick Gordon Cyril Cecil Dunn	Calgary, Alta.

William Hamilton Flewelling	Ottawa, Ont.
Kenneth Alan France	Kelowna, B.C.
James Douglas Freeborn	Chapleau, Ont.
Shirley Maude Fyles, B.A.	Montreal, Que.
William Barron Garvock	Ottawa, Ont.
Kevin Snowdon Blaisdell Wood Greaves	Ottawa, Ont.
Joseph Bernard Greenspan, B.Sc.	Niagara Falls, Ont.
George Robert Horne	Perth, Ont.
Patricia Anne Hutchison	Regina, Sask.
Philip Austin Joslyn	Melfort, Sask.
Desta Frances Leavine	Kitchener, Ont.
Robert Daniel James McAuley	Ottawa, Ont.
Ronald George McAuley	Hamilton, Ont.
James David McClure	North Bay, Ont.
Robert Ernest McGirr, B.Sc.	Toronto, Ont.
Donald William McLennan	Hamilton, Ont.
William Robert McMillan	Hamilton, Ont.
Donald Bruce McNaughton	Walkerville, Ont.
Jerrold Alan MacVittie	Port Arthur, Ont.
William John Mahood	Ottawa, Ont.
Anthony John Denham Meek	Kingston, Ont.
Irene Edith Millar	Cobden, Ont.
George William Mackay Murdock, B.A.	Vancouver, B.C.
William Henry Novick	Montreal, Que.
John Orval Parker	Peterborough, Ont.
Alexander Pollock	Saskatoon, Sask.
Charles Horace Ramsden	Ottawa, Ont.
Ely Ravinsky, B.A.	Montreal, Que.
Norris Hamilton Ready	Kingston, Ont.
John Alexander George Roberts	Hamilton, Ont.
Henry Lynnwood Sargeant	Sault Ste. Marie, Ont.
Harry Crowther Smith, B.A.	Copper Cliff, Ont.
Hubert Hedley Smith	Toronto, Ont.
John Terence Stott	Toronto, Ont.
Blyth Earle Taylor	Maniwaki, Que.
Wallace Johnston Troup	Ottawa, Ont.
Leslie Stephen Valberg	Canora, Sask.
Glendon Frederick VanCott	Picton, Ont.
Malcolm Charles Veidenheimer	Hamilton, Ont.
Herbert Ovas Wagg	Collingwood, Ont.
John Hamilton Webster	Picton, Ont.
Donald Clifford Wellington	Arvida, Que.
William Albert Yates	Ottawa, Ont.

REGISTRATION IN MEDICINE FROM SEPTEMBER 27, 1948
TO MAY 14, 1949

Sixth year	43
Fifth year	52
Fourth year	53
Third year	53
Second year	62
First year	62

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